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**SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE  
PUBLISHED IN THIS VOLUME**

[Letter after station name designates types of data:

(d) discharge, (e) elevation, stage, or contents, (v) tidal volume, (c) chemical,

(m) microbiological, (t) water temperature]

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ARE PUBLISHED IN THIS VOLUME--Continued**

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**GROUND-WATER WELLS, BY COUNTY,  
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME**

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Well 411256073153101 Local number FF23 .....	285
Well 411124073172201 Local number FF30 .....	286
Well 411118073175801 Local number FF31 .....	287
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Well 414704072580501 Local number BU143 .....	302
Well 414649072574401 Local number BU144 .....	303
Well 415450072332201 Local number EW133 .....	304
Well 415548072311301 Local number EW134 .....	305
Well 415649072494801 Local number GR328 .....	306
Well 415647072495901 Local number GR329 .....	307
Well 415643072502201 Local number GR330 .....	308
Well 415653072501701 Local number GR331 .....	309
Well 413535072253701 Local number MB32 .....	310
Well 413554072270201 Local number MB35 .....	313
Well 413518072264501 Local number MB36 .....	314
Well 413724072551101 Local number SW64 .....	315
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Well 412546072541701 Local number HM447 .....	332
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FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued**

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Well 414741072134501 Local number MS44 .....	355
Well 414825072185601 Local number MS45 .....	358
Well 414825072185602 Local number MS46 .....	359
Well 414843072182601 Local number MS74 .....	360
Well 414815072183401 Local number MS75 .....	361
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### Discontinued surface-water discharge or stage-only stations

The following continuous-record surface-water gaging stations have been discontinued. All listed stations had daily streamflow or stage records published for the period of record, expressed in water years. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District office at the address given on the back of the title page of this report.

STATION NUMBER	STATION NAME	DRAINAGE AREA (SQUARE MILES)	PERIOD of RECORD
<b>POQUONOCK RIVER BASIN</b>			
01119000	Great Brook at Poquonock Bridge (stage only)	14.5	1946-67
<b>THAMES RIVER BASIN</b>			
01119280	Willimantic River at Stafford Springs	52.9	1963-67
01119320	Roaring Brook near Stafford Springs	14.7	1961-66
01120000	Hop River near Columbia	73.9	1932-71
01120500	Safford Brook near Woodstock Valley	4.16	1950-81
011230695	Shetucket River at Taftville	512	1989-97; 2001
01125415	Muddy Brook near Woodstock	20.2	1979-83
01125490	Little River at Harrisville	35.7	1961-71
01126000	Fivemile River at Killingly	57.8	1938-71
01126500	Moosup River at Moosup	83.2	1933-71
01126600	Blackwell Brook near Brooklyn	16.8	1964-76
01126950	Pachaug River at Pachaug	53.2	1961-75
<b>CONNECTICUT RIVER BASIN</b>			
01183950	Grape Brook at Thompsonville	2.46	1967-69
01184280	Scantic River near North Somers	27.0	1967-69
01184500	Scantic River at Broad Brook	97.8	1928-71
01186100	Mad River at Winsted	18.5	1957-69
01186400	Sandy Brook at Robertsville	35.2	1968-76
01187000	West Branch Farmington River at Riverton	218	1929-55
01187400	Valley Brook near West Hartland	7.35	1940-74
01187680	Cherry Brook near Canton Center	8.12	1967-71
01187800	Nepaug River near Nepaug	23.6	1918-55; 1958-72
01187850	Clear Brook near Collinsville	.53	1917-73
01187980	Farmington River at Collinsville	360	1963-77
01189180	Hop Brook at West Simsbury	1.38	1967-71
01189190	Stratton Brook at West Simsbury	1.50	1967-71
01189200	Stratton Brook near Simsbury	5.48	1966-71
01189210	Hop Brook near Simsbury	11.2	1966-71
01189390	East Branch Salmon Brook at Granby	39.1	1964-76

**Discontinued surface-water discharge or stage-only stations--Continued**

The following continuous-record surface-water gaging stations have been discontinued. All listed stations had daily streamflow or stage records published for the period of record, expressed in water years. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District office at the address given on the back of the title page of this report.

STATION NUMBER	STATION NAME	DRAINAGE AREA (SQUARE MILES)	PERIOD of RECORD
<b>CONNECTICUT RIVER BASIN--Continued</b>			
01189500	Salmon Brook at Granby	66.7	1946-63
01190000	Farmington River at Rainbow	583	1928-86
01190057	Podunk River near Burnham	12.9	1975-81
01190100	Piper Brook at Newington Junction	14.4	1958-71
01190200	Mill Brook at Newington	2.66	1958-71
01190300	Trout Brook at West Hartford	13.4	1958-71
01190500	South Branch Park River at Hartford	38.2	1937-72; 1973-81
01190600	Wash Brook at Bloomfield	5.62	1958-71
01191000	North Branch Park River at Hartford	25.1	1936-86
01191500	Park River at Hartford	72.1	1937-62
01192370	Porter Brook near Manchester	2.44	1976-81
01192480	Hop Brook near Manchester	11.7	1977-83
01192600	South Branch Salmon Brook at Buckingham	.92	1961-76
01192610	Salmon Brook at Glastonbury	8.19	1967-78
01192650	Roaring Brook at Hopewell	24.5	1962-71
01192700	Mattabesset River at East Berlin	46.6	1962-71
01192704	Mattabesset River at State Rt. 372 at East Berlin	48.1	1995-98
01193800	Hemlock Valley Brook at Hadlyme	2.66	1960-76
01194000	Eightmile River at North Plain	20.3	1939-66
01194825	Connecticut River at Old Saybrook	11,269	1979-98
<b>MENUNKETESUCK RIVER BASIN</b>			
01195000	Menunketesuck River near Clinton	11.5	1941-67
<b>HAMMONASSET RIVER BASIN</b>			
01195146	Pond Meadow Brook at Killingworth	5.92	1984-93
<b>EAST RIVER BASIN</b>			
01195200	Neck River near Madison	6.57	1961-81
<b>QUINNIPIAC RIVER BASIN</b>			
01195500	Quinnipiac River at Southington	17.9	1936-38; 1969-70
01196000	Eightmile River at Plantsville	14.5	1936-38; 1969-70
01196580	Muddy River near North Haven	18.0	1962-73

**Discontinued surface-water discharge or stage-only stations--Continued**

The following continuous-record surface-water gaging stations have been discontinued. All listed stations had daily streamflow or stage records published for the period of record, expressed in water years. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District office at the address given on the back of the title page of this report.

<b>STATION NUMBER</b>	<b>STATION NAME</b>	<b>DRAINAGE AREA (SQUARE MILES)</b>	<b>PERIOD of RECORD</b>
<b>MILL RIVER BASIN</b>			
01196626	Mill River at Hamden	36.5	1974-78
<b>HOUSATONIC RIVER BASIN</b>			
01198500	Blackberry River at Canaan	43.8	1949-71
01198800	Hollenbeck River at Huntsville	19.1	1971-74
<b>HOUSATONIC RIVER BASIN--Continued</b>			
01198860	Deming Brook near Huntsville	1.05	1971-74
01199200	Guinea Brook at Ellsworth	3.56	1960-81
01199290	Housatonic River at Kent	756	1985-90
01201190	West Aspetuck River near New Milford	23.7	1963-72
01201500	Still River near Lanesville	67.5	1932-66
01201510	Still River at Lanesville	69.8	1967-71
01201930	Marshepaug River near Milton	9.37	1968-81
01202500	Shepaug River at Woodville	38.2	1936-66
01203510	Pootatuck River at Sandy Hook	25.0	1965-73
01204800	Copper Mill Brook near Monroe	2.46	1958-76
01205600	West Branch Naugatuck River at Torrington	33.8	1956-97
01205700	East Branch Naugatuck River at Torrington	13.6	1956-97
01206000	Naugatuck River near Thomaston	72.2	1931-59
01206400	Leadmine Brook near Harwinton	19.8	1959-73
01206500	Leadmine Brook near Thomaston	24.6	1931-59
01208012	Branch Brook near Thomaston	20.3	1971-74
01208450	Naugatuck River near Naugatuck	245	1918-24; 1928-55
<b>SAUGATUCK RIVER BASIN</b>			
01208999	Little River at Sanfordtown	5.55	1965-68
01209110	Aspetuck River at Aspetuck	19.1	1962-67
01209500	Saugatuck River near Westport	79.9	1932-67
<b>RIPPOWAM RIVER BASIN</b>			
01209900	Rippowam River at Stamford	33.6	1975-77
<b>BYRAM RIVER BASIN</b>			
01212100	East Branch Byram River at Riversville	11.2	1963-69



### Discontinued surface-water quality network stations

The following stations were discontinued as continuous-record or periodic surface-water-quality network stations prior to the 2002 water year. Discontinued network stations with less than 9 months of record have not been included. Discontinued project stations have not been included. Information regarding these stations may be obtained from the District office at the address given on the back of the title page of this report.

STATION NUMBER	STATION NAME	DRAINAGE AREA (SQUARE MILES)	PERIOD of RECORD
<b>PAWCATUCK RIVER BASIN</b>			
01118525	Pawcatuck River near Pawcatuck	302	1974-76
<b>THAMES RIVER BASIN</b>			
01122001	Natchaug River at Willimantic	174	1974-80
01125150	French River at Mechanicsville	107	1962-63; 1974-91
01125200	Quinebaug River at Putnam	288	1962; 1974-80
01127500	Yantic River at Yantic	90.0	1950; 1968-80
01127701	Thames River near Mohegan	1,382	1963; 1974-91
<b>CONNECTICUT RIVER BASIN</b>			
01184100	Stony Brook near West Suffield	10.4	1980-91
01184500	Scantic River at Broad Brook	98.2	1953-60; 1995-97
01186800	Still River at Riverton	86.2	1971; 1974-91
01188085	Farmington River at Unionville	373	1974-83
01189120	Farmington River at Avon	465	1971; 1974-91
01189999	Farmington River at Rainbow Fishway at Rainbow	588	1976-93
01190015	Farmington River at Windsor	599	1974-76
01190045	Podunk River at South Windsor	3.74	1975-81
01190069	Connecticut River at Hartford	10,492	1974-76
01191510	Park River at Hartford	72.6	1974-79
01192370	Porter Brook near Manchester	2.44	1976-81
01192516	Hockanum River at East Hartford	76.1	1974-91
01192911	Connecticut River at Middletown	10,869	1974-91
01193630	Salmon River at Leesville Fishway at Leesville	111	1981-92
<b>LONG ISLAND SOUND</b>			
01196656	New Haven Harbor near New Haven	--	1974-91
<b>HOUSATONIC RIVER BASIN</b>			
01198135	Housatonic River near Sodom	471	1984-91
01198550	Housatonic River near Canaan	586	1974-83
01198800	Hollenbeck River at Huntsville	18.1	1971-74
01198857	Wangum Lake Brook near Huntsville	5.32	1971-74
01198860	Deming Brook near Huntsville	1.08	1971-74
01198870	Ledgy Brook near Huntsville	0.66	1971-74
01198880	Wangum Lake Brook near South Canaan	10.1	1971-74
01199000	Housatonic River at Falls Village	634	1971-74
01199900	Tenmile River at South Dover near Wingdale, NY	194	1991-95
01200000	Tenmile River near Gaylordsville	203	1959; 1973-75; 1980
01201485	Still River at Brookfield Center	60.6	1971-72; 1974-92
01204000	Pomperaug River at Southbury	75.1	1961; 1965-74

**Discontinued surface-water quality network stations--Continued**

The following stations were discontinued as continuous-record or periodic surface-water-quality network stations prior to the 2002 water year. Discontinued network stations with less than 9 months of record have not been included. Discontinued project stations have not been included. Information regarding these stations may be obtained from the District office at the address given on the back of the title page of this report.

<b>STATION NUMBER</b>	<b>STATION NAME</b>	<b>DRAINAGE AREA (SQUARE MILES)</b>	<b>PERIOD of RECORD</b>
<b>HOUSATONIC RIVER BASIN—Continued</b>			
01201700	Lake Lillinonah near Brookfield Center	1,214	1974-91
01204510	Lake Zoar at Riverside	1,511	1974-91
01205561	Hall Meadow Brook near Drakeville	12.0	1966-67
01208828	Housatonic River at Stratford	1,941	1974-91
<b>NORWALK RIVER BASIN</b>			
01209570	Norwalk River at Georgetown	14.4	1964; 1966; 1976-78
01209572	Norwalk River at Cannondale	15.2	1977-78
<b>LONG ISLAND SOUND</b>			
01209910	Stamford Harbor at Stamford	--	1974-91

## INTRODUCTION

The Water Resources Division of the U.S. Geological Survey (USGS), in cooperation with State and local agencies, obtains a large amount of data pertaining to the water resources of Connecticut each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series entitled "Water Resources Data - Connecticut."

This report includes records on both surface and ground water in the State. Specifically, it contains: (1) discharge records for 51 streamflow-gaging stations, and for 66 partial-record streamflow stations and miscellaneous sites; (2) stage-only records for 4 tidal-gaging stations; (3) water-quality records for 17 streamflow-gaging stations, for 19 ungaged stream sites, and temperature at 1 reservoir site; and (4) water-level records for 74 observation wells. Additional data were collected at various sites not part of the systematic data-collection program and are published as miscellaneous sites.

This series of annual reports for Connecticut began with the 1961 water year with a report that contained only data relating to the quantities of surface water. In 1964, water-quality data were added to this series and in 1967, ground-water data were added. Beginning with the 1975 water year, the report was changed to its present format.

Prior to introduction of this series, and for several subsequent water years, water-resources data for Connecticut were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Part A." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." These Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Branch of Information Services, Federal Center, Box 25286, Denver, CO 80225-0286.

Publications similar to this report are published annually by the USGS for all States. These official USGS reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is

identified as "U.S. Geological Survey Water-Data Report CT-02-1." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or on microfiche film by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the USGS, Connecticut District, by writing to the address given on the back of the title page or by telephoning (860) 291-6740.

## COOPERATION

The USGS and organizations in the State of Connecticut have had cooperative agreements for the systematic collection of streamflow records since 1928, for ground-water levels since 1934, and for water-quality records since 1952. Organizations that assist in collecting data through cooperative agreements with the USGS are:

- **State Department of Environmental Protection**, Arthur J. Roque, Jr., Commissioner.
- **State Department of Public Health**, Joxel Garcia, Commissioner.
- **U.S. Army Corps of Engineers**, Paul Marinelli, Chief, Reservoir Control Center.
- **Town of Fairfield, Conservation Commission**, Thomas J. Steinke, Conservation Director.
- **City of Hartford**, Lee C. Erdmann, City Manager.
- **Town of Ledyard**, Steve Masalin, Town Engineer.
- **City of Holyoke (Mass.)**, Paul Ducheneay, Superintendent, Hydroelectric Operations.
- **Town of Middletown**, Domenique Thornton, Mayor.
- **Town of Montville**, John Geary, Chairman, Montville Water Pollution Control Authority.
- **Town of Naugatuck**, Joan Taf, Mayor.
- **City of New Britain, Board of Water Commissioners**, Gilbert J. Bligh, Director of Water.
- **Town of Putnam**, Daniel S. Rovero, Mayor.
- **Second Taxing District Water Department**, S. Norwalk, John M. Hiscock, General Manager.
- **City of Waterbury**, Kenneth Skov, Superintendent, Water Department.
- **Town of Windham**, John J. Lescoe, First Selectman.
- **Town of Woodbury**, Richard W. Crane, First Selectman.
- **Metropolitan District Commission**, Robert A. Kerkes, Director of Water Treatment and Supply.
- **Regional Water Authority**, Peter Gaewski, Director of Engineering.

Organizations that supplied data are acknowledged in station descriptions.

## SUMMARY OF HYDROLOGIC CONDITIONS

Supplemental data used to define the hydrologic conditions include precipitation records collected by the National Weather Service, and water-level records from the observation-well network that is operated by the USGS in cooperation with the State.

### Floods and Droughts

**FLOODS**--No significant widespread flooding occurred during water year 2002.

**DROUGHTS**--Prolonged periods of less than normal rainfall affected much of the State in water year 2002. Monthly precipitation at Windsor Locks averaged 1.8 inches below the normal monthly rainfall from October 2001 to April 2002. Precipitation was slightly above normal during May and June, but dropped to below-normal levels in July, August, and September. According to the Northeast Regional Climate Center, September to November 2001 was the fifth driest on record for the last 107 years. The cumulative precipitation deficit for July 2001 through mid-April 2002 was 15.5 inches. Monthly departures (in inches) from normal measured at Bradley Airport during the water year were: October 2001 (-2.81), November 2001 (-3.19), December 2001 (-1.70), January 2002 (-2.58), February 2002 (-1.51), March 2002 (-0.14), April 2002 (-0.54), May 2002 (+0.94), June 2002 (+1.34), July 2002 (-1.46), August 2002 (-1.17), September 2002 (-1.13).

This continued precipitation deficit resulted in both streamflows and ground-water levels that were much lower than normal. During water year 2002, most streamflows and ground-water levels were below normal, and many new monthly records were set in Connecticut. A drought advisory in Connecticut was declared by State officials on April 3, 2002 asking residents statewide to voluntarily conserve water. Ground-water levels were the most persistent indicator of the drought and the advisory was not lifted until June 10, when most ground-water levels had returned to a normal range for that time of year.

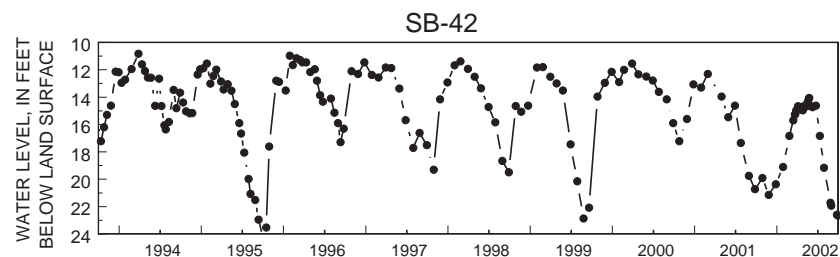
### Ground-Water Levels

Ground-water levels were measured in 14 long-term observation wells throughout the State, and values are compared to the period of record for each well in the table below. See figure 4 for well locations.

Ground-water well	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP
BD-8 (Brookfield)	N	-	-	-	-	-	-	-	-	-	-	-
BU-2 (Burlington)	-	-	-	-	-	-	-	-	N	N	N	N
FF-23 (Fairfield)	-	-	-	-	-	-	-	N	N	N	-	N
GT-19 (Groton)	N	-	-	-	-	-	-	N	N	-	-	N
MF-1 (Middlefield)	-	-	-	-	-	N	-	N	N	N	-	-
MS-19 (Mansfield)	N	-	-	-	-	-	-	-	N	N	-	-
MT-261 (Middletown)	-	-	-	-	-	-	-	N	+	+	N	-
NOC-7 (N. Canaan)	N	-	N	N	N	N	-	N	+	N	-	N
NT-15 (Newtown)	N	-	-	-	-	-	-	N	N	N	N	N
PL-1 (Plainfield)	N	N	N	-	-	-	-	-	N	N	N	N
SW-64 (S. Windsor)	N	N	-	-	-	-	-	-	N	N	-	-
WB-93 (Waterbury)	-	-	-	-	-	-	-	+	N	N	-	N
WB-198 (Waterbury)	N	-	-	-	-	-	-	-	-	N	-	-
WY-1 (Woodbury)	N	N	-	-	-	-	-	+	+	+	N	N

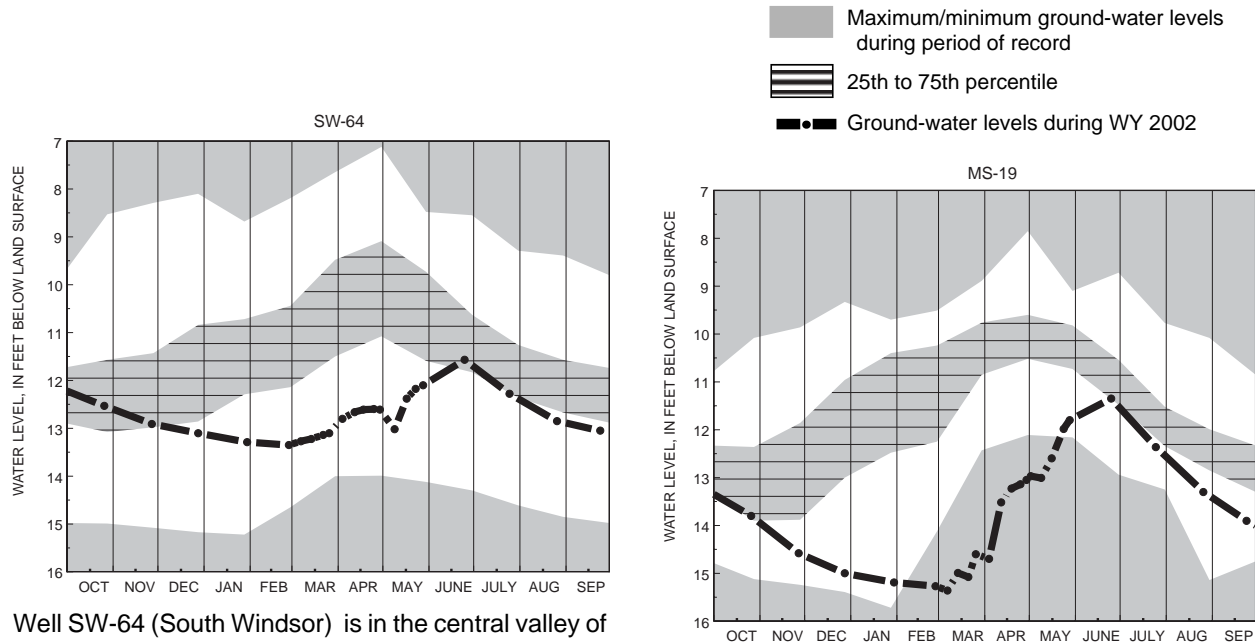
[+, above normal, within the highest 25 percent of record for this month; -, below normal, within the lowest 25 percent of record for this month; N, normal, within the 25- to 75-percentile range]

Typically, ground-water levels decline from April to September; however, the period of declining levels leading up to and into water year 2002 was longer than usual. The period of rising water levels, typically from September to



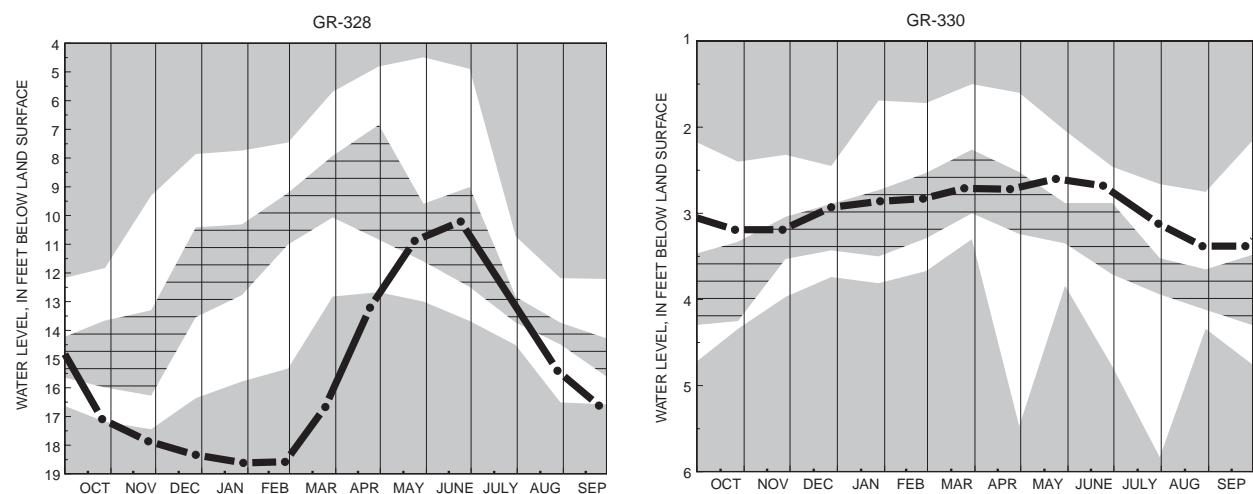
April, was shorter than usual. Well SB-42 (Southbury) is in thick glacial till. Its long-term hydrograph (shown here) shows a pattern that was typical for many wells in water year 2002.

Prolonged periods of less-than-normal rainfall caused new record low ground-water levels across the State from November through April. Record low ground-water levels were measured in 12 of the 16 observation wells that were measured during the severe drought of the 1960s. The median duration of the record lows in these wells in water year 2002 was 4 months, typically from February through May, although the time and duration of the lows differed at each observation well depending on the site conditions. Shallow observation wells in or near floodplains were less affected by the drought than wells on terraces and hillsides.



Well SW-64 (South Windsor) is in the central valley of Connecticut near the Connecticut River and has been observed for 67 years. Water levels in this well did not reach record lows, although the peak water level was about 2 months later than usual.

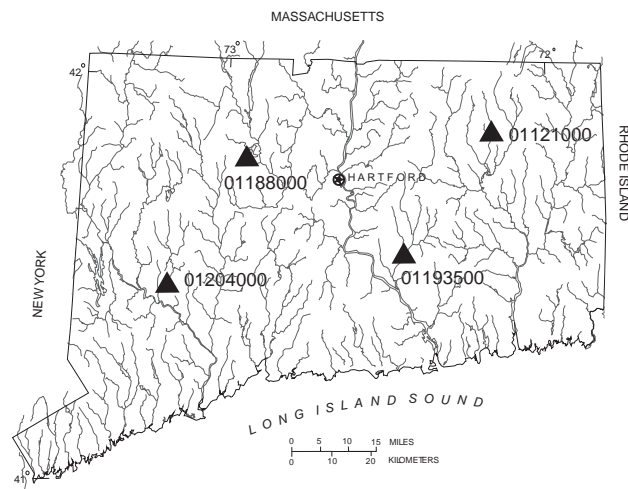
Well MS-19 (Mansfield) is not near a major river and has been observed for 43 years. Water levels in this well were at record lows from February through May, and the peak was about 2 months later than usual.



Wells GR-328 and GR-330 (Granby), which have only been observed for about 19 years and thus do not include the effects of the 1960s drought, show a similar pattern to the longer-term wells. Well GR-328 is in glacial till in a recharge-dominated part of the ground-water-flow system, and well GR-330 is in stratified glacial deposits in a discharge-dominated part of the flow system. Water levels usually are at their highest in April; this year the highest water levels were in June. Although June water levels were in the normal range (25<sup>th</sup> to 75<sup>th</sup> percentile), the amount of ground water in storage was less than normal because the June 2002 peak levels are lower than the April typical peak levels.

## Streamflow

Streamflow was measured at four index stations during the 2002 water year. The four stations are Mount Hope River near Warrenville, USGS 01121000 (Northeastern Conn.), Salmon River near East Hampton, USGS 01193500 (Southeastern Conn.), Burlington Brook near Burlington, USGS 01188000 (Central Conn.), and Pomperaug River at Southbury, USGS 01204000 (Southwestern Conn.). At these four long-term USGS gaging stations, streamflow levels at these four long-term USGS gaging stations were in the below-normal range from November 2001 through February 2002 and in the below-normal range at three of the four stations for March and April as well (see table below). In January 2002, the monthly median streamflow at these four sites ranged from 16 to 24 percent of the long-term median streamflow for January. Monthly streamflow values at the four index stations for water year 2002 are compared to the 30-year reference period October 1971 to September 2000 in tables 1 and 2 and to the index station's period of record in figure 1.



Streamflow-gaging station	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP
Mount Hope River	N	-	-	-	-	N	N	+	+	N	-	N
Salmon River	-	-	-	-	-	-	-	N	N	-	-	-
Burlington Brook	-	-	-	-	-	-	-	N	N	-	-	N
Pomperaug River	N	-	-	-	-	-	-	N	+	-	-	N

[+, above normal, within the highest 25 percent of record for this month; -, below normal, within the lowest 25 percent of record for this month; N, normal, within the 25- to 75-percentile range]

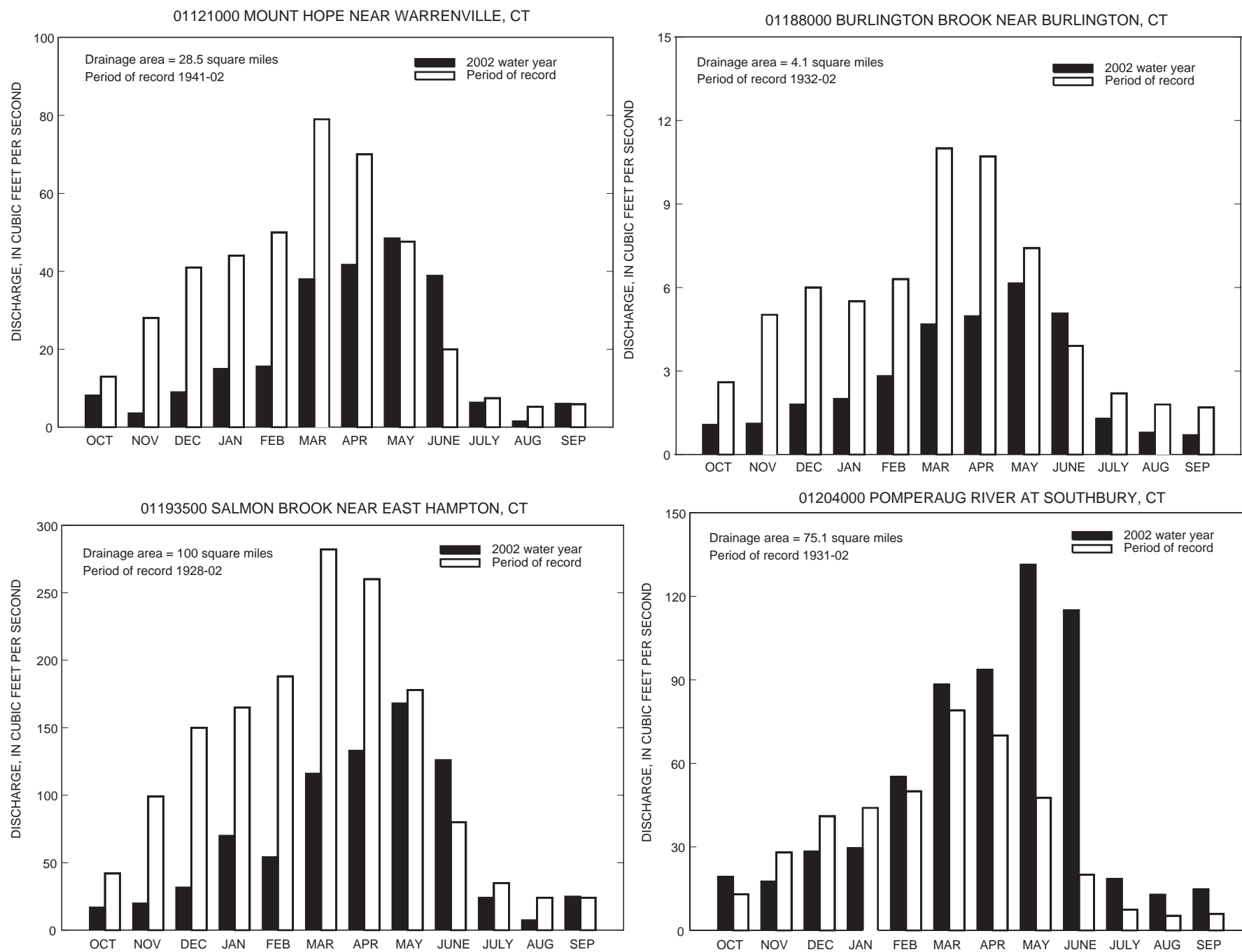
Streamflow records indicate that the annual mean streamflow was less than or equal to the long-term annual mean streamflow for the majority of gaging stations (see fig. 2 for locations of stations). New records were set for lowest annual mean streamflow at nine gaging stations with more than 10 years of record during the water year. Two stations with more than 10 years of record had new lowest daily mean values.

**Table 1.** Monthly mean and 30-year mean monthly discharges for index stations in Connecticut, water year 2002 [Discharges in cubic feet per second; long-term mean monthly discharges are defined as the monthly means for the period 1971–00; see fig. 2 for station locations]

STATION NAME AND NUMBER								
MONTH	01121000 MOUNT HOPE RIVER NEAR WARRENVILLE		01188000 BURLINGTON BROOK NEAR BURLINGTON		01193500 SALMON RIVER NEAR EAST HAMPTON		01204000 POMPERAUG RIVER AT SOUTHBURY	
	MONTHLY MEAN WY 2002	MEAN MONTHLY 1971-00	MONTHLY MEAN WY 2002	MEAN MONTHLY 1971-00	MONTHLY MEAN WY 2002	MEAN MONTHLY 1971-00	MONTHLY MEAN WY 2002	MEAN MONTHLY 1971-00
October	9.11	34.4	1.30	6.62	22.0	102	22.4	92.8
November	4.26	53.6	1.27	9.02	21.2	182	19.6	128
December	12.4	72.9	2.43	10.2	39.2	255	33.9	174
January	14.4	85.4	2.32	10.8	67.6	301	33.9	191
February	16.7	76.8	3.51	10.2	57.9	280	59.8	176
March	48.2	109	5.97	16.9	152	374	104	263
April	49.1	93.2	7.11	15.2	156	346	113	243
May	76.2	60.2	9.30	11.3	238	239	182	165
June	52.1	41.0	8.93	7.30	151	165	134	109
July	6.96	17.4	1.85	4.07	26.0	70.5	19.6	60.1
August	3.08	16.6	1.31	4.08	13.7	63.6	22.0	53.5
September	6.92	17.9	1.21	4.72	36.9	59.9	19.7	58.1

**Table 2.** Monthly median and 30-year median monthly discharges for index stations in Connecticut, water year 2002 [Discharges in cubic feet per second; long-term median monthly discharges are defined as the monthly medians for the period 1971–00; see fig. 2 for station locations]

STATION NAME AND NUMBER								
MONTH	01121000 MOUNT HOPE RIVER NEAR WARRENVILLE		01188000 BURLINGTON BROOK NEAR BURLINGTON		01193500 SALMON RIVER NEAR EAST HAMPTON		01204000 POMPERAUG RIVER AT SOUTHBURY	
	MONTHLY MEDIAN WY 2002	MEDIAN MONTHLY 1971-00	MONTHLY MEDIAN WY 2002	MEDIAN MONTHLY 1971-00	MONTHLY MEDIAN WY 2002	MEDIAN MONTHLY 1971-00	MONTHLY MEDIAN WY 2002	MEDIAN MONTHLY 1971-00
October	8.11	21.7	1.08	5.74	16.8	73.9	19.3	73.7
November	3.57	47.5	1.11	8.46	19.8	167	17.6	116
December	9.00	60.3	1.80	8.01	31.6	209	28.4	145
January	15.0	83.1	2.00	10.6	70.0	292	29.7	180
February	15.6	74.8	2.82	10.5	54.1	253	55.2	168
March	38.0	91.3	4.69	15.8	116	333	88.4	220
April	41.7	85.8	4.98	13.9	133	312	93.6	211
May	48.5	58.5	6.15	10.0	168	223	131	152
June	38.9	21.8	5.07	4.97	126	91.0	115	69.2
July	6.33	13.4	1.29	3.16	24.0	46.8	18.6	39.7
August	1.52	10.8	0.79	3.42	7.34	46.2	12.9	39.0
September	6.03	12.5	0.70	2.65	24.9	58.3	14.8	36.2



**Figure 1.** Comparison of long-term median monthly discharge records to monthly median discharge for water year 2002 at index stations in Connecticut.



## SPECIAL NETWORKS AND PROGRAMS

**Hydrologic Benchmark Network** is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative of undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at <http://water.usgs.gov/hbn/>.

**National Stream-Quality Accounting Network (NASQAN)** monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at <http://water.usgs.gov/nasqan/>.

**The National Atmospheric Deposition Program/ National Trends Network (NADP/NTN)** provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem

research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at <http://bqs.usgs.gov/acidrain/>.

**National Water-Quality Assessment (NAWQA) Program** of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at <http://water.usgs.gov/nawqa/>

## EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2002 water year that began October 1, 2001 and ended September 30, 2002. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, content data for lakes and reservoirs, water-quality data for surface and ground water, precipitation data, and ground-water level data. The locations of the stations and wells where the data were collected are shown in figures 2, 3, and 4. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

### Station Identification Numbers

Each data station in this report, whether streamsite or well, is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is established and is retained for that station indefinitely. Systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells and precipitation stations.

### Downstream Order System

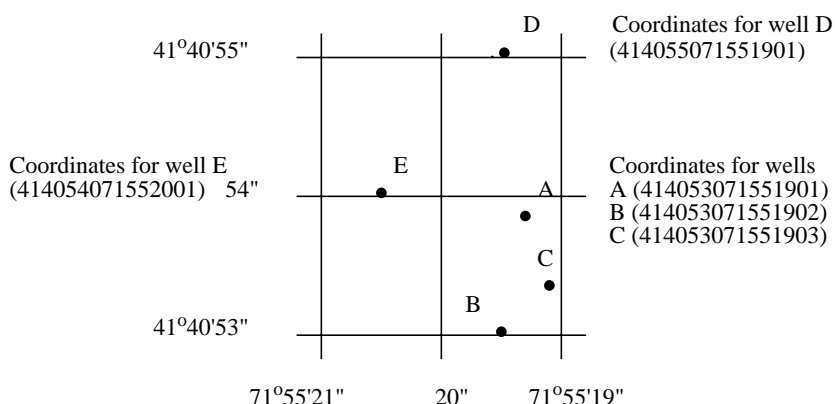
Since October 1, 1950, the order of listing hydrologic-station records in USGS reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of

any tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 01188000, which appears just to the left of the station name, includes the two-digit Part number "01" plus the six-digit downstream-order number "188000." The Part number designates the major river basin; for example, Part "01" is the North Atlantic Slope basin.

### Latitude-Longitude System

The identification number for wells and precipitation sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description (see fig. below).



System for numbering wells and precipitation sites (latitude and longitude)

## Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered partial records, but they are presented separately in this report. Locations of all complete-record stations for which data are given in this report are shown in figure 2.

## Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage, with digital recorders that punch stage values on paper tapes at selected time intervals, or with electronic data loggers that collect, store, and transmit data via satellite. Measurements of discharge are made with current meters using methods adapted by the U.S. Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, Water-Supply Paper 2175, and the U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's),

Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables

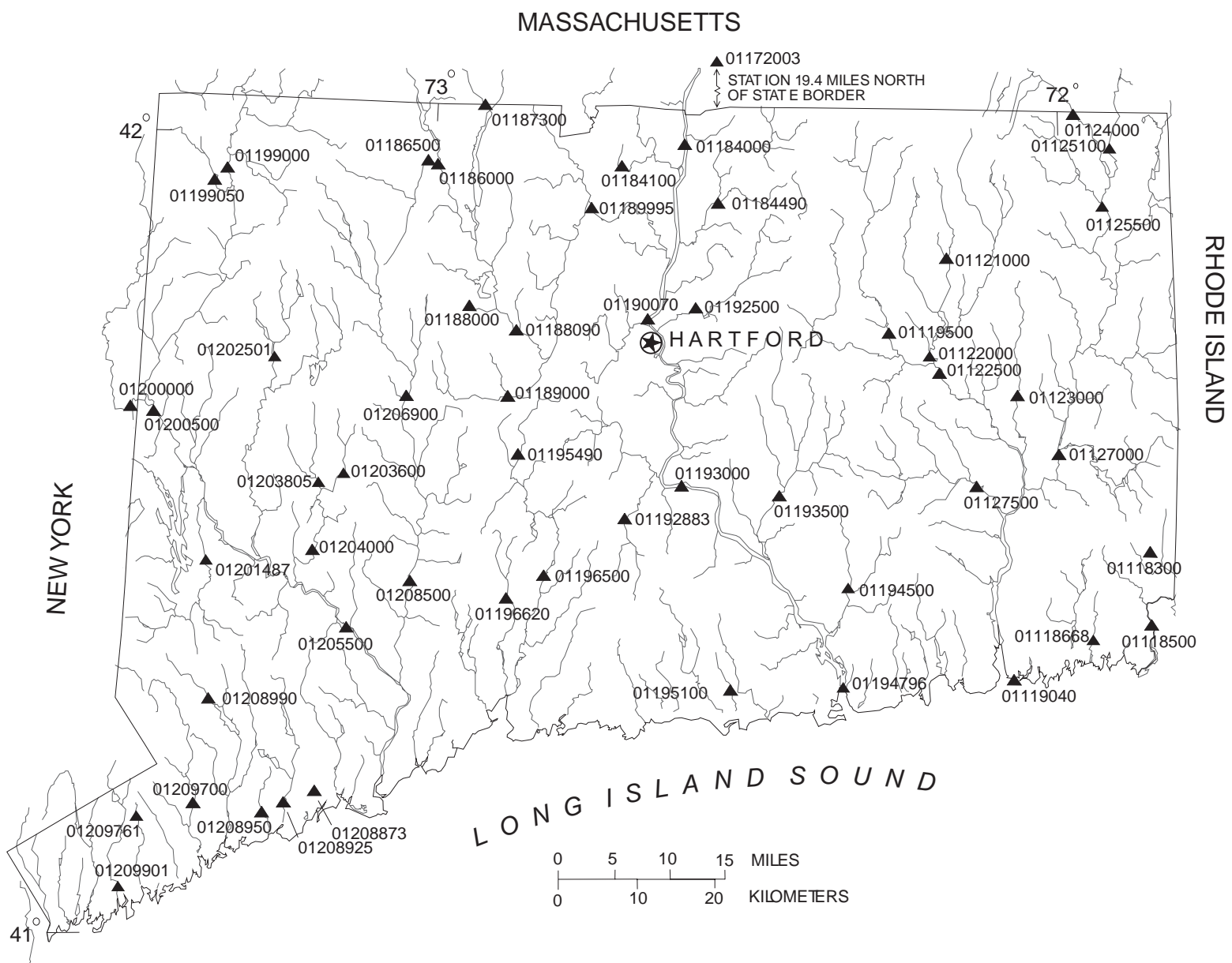


Figure 2. Location of active surface-water gaging stations.

**Pawcatuck River Basin**

- 01118300 Pendleton Hill Brook near Clarks Falls, CT
- 01118500 Pawcatuck River at Westerly, RI

**Mystic River Basin**

- 01118668 Whitford Brook below Williams Brook near Old Mystic, CT

**Poquonock River Basin**

- 01119040 Poquonock River near Groton, CT

**Thames River Basin**

- 01119500 Willimantic River near Coventry, CT
- 01121000 Mount Hope River near Warrenville, CT
- 01122000 Natchaug River at Willimantic, CT
- 01122500 Shetucket River near Willimantic, CT
- 01123000 Little River near Hanover, CT
- 01124000 Quinebaug River at Quinebaug, CT
- 01125100 French River at North Grosvenordale, CT
- 01125500 Quinebaug River at Putnam, CT
- 01127000 Quinebaug River at Jewett City, CT
- 01127500 Yantic River at Yantic, CT

**Connecticut River Basin**

- 01172003 Connecticut River below Holyoke Dam at Holyoke, MA
- 01184000 Connecticut River at Thompsonville, CT
- 01184100 Stony Brook near West Suffield, CT
- 01184490 Broad Brook at Broad Brook, CT
- 01186000 West Branch Farmington River at Riverton, CT
- 01186500 Still River at Robertsville, CT
- 01187300 Hubbard River near West Hartland, CT
- 01188000 Burlington Brook near Burlington, CT
- 01188090 Farmington River at Unionville, CT
- 01189000 Pequabuck River at Forestville, CT
- 01189995 Farmington River at Tariffville, CT
- 01190070 Connecticut River at Hartford, CT
- 01192500 Hockanum River near East Hartford, CT
- 01192883 Coginchaug River at Middlefield, CT
- 01193000 Connecticut River near Middletown, CT
- 01193500 Salmon River near East Hampton, CT
- 01194500 East Branch Eightmile River near North Lyme, CT
- 01194796 Connecticut River at Old Lyme, CT

**Indian River Basin**

- 01195100 Indian River near Clinton, CT

**Quinnipiac River Basin**

- 01195490 Quinnipiac River at Southington, CT
- 01196500 Quinnipiac River at Wallingford, CT

**Mill River Basin**

- 01196620 Mill River near Hamden, CT

**Housatonic River Basin**

- 01199000 Housatonic River at Falls Village, CT
- 01199050 Salmon Creek at Lime Rock, CT
- 01200000 Tenmile River near Gaylordsville, CT
- 01200500 Housatonic River at Gaylordsville, CT
- 01201487 Still River at Rt. 7 at Brookfield Center, CT
- 01202501 Shepaug River at Peter's Dam at Woodville, CT
- 01203600 Nonewaug River at Minortown, CT
- 01203805 Weekepeemee River at Hotchkissville, CT
- 01204000 Pomperaug River at Southbury, CT
- 01205500 Housatonic River at Stevenson, CT
- 01206900 Naugatuck River at Thomaston, CT
- 01208500 Naugatuck River at Beacon Falls, CT

**Southwestern Coastal River Basins**

- 01208873 Rooster River at Fairfield, CT
- 01208925 Mill River near Fairfield, CT
- 01208950 Sasco Brook near Southport, CT
- 01208990 Saugatuck River near Redding, CT
- 01209700 Norwalk River at South Wilton, CT
- 01209761 Fivemile River near New Canaan, CT
- 01209901 Rippowam River at Stamford, CT

- Real-time data are available on the Internet

gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

### **Data Presentation**

The records published for each continuous-record surface-water discharge station (gaging station) consist of five parts—the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; the tabular statistical summary of monthly mean flow data for a designated period, by water year; the summary statistics table that includes statistical data of annual, daily and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and the hydrograph showing daily mean discharge, in cubic feet per second, for the water year. The hydrographs were added beginning with the 1997 water year to assist the reader in visualizing the variation in discharge throughout the water year and to be consistent with data reports from other Districts.

### **Station manuscript**

The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or

lake content. Comments to follow clarify information presented under the various headings of the station description.

**LOCATION.**--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

**DRAINAGE AREA.**--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

**PERIOD of RECORD.**--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

**REVISED RECORDS.**--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum discharge was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

**GAGE.**--The type of gage in current use, the datum of the current gage referred to as sea level (see definitions), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

**REMARKS.**--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to

special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

**COOPERATION.**--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

**EXTREMES OUTSIDE PERIOD of RECORD.**--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

**REVISIONS.**--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the Connecticut District to determine if the published records were ever revised after the station was discontinued. of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD of RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentation of lake contents.

#### **Data table of daily mean values**

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic

feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

#### **Statistics of monthly mean data**

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS \_-\_, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD of RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

#### **Summary statistics**

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period as appropriate. The designated period selected, "WATER YEARS \_-\_, " will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated

occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

**ANNUAL TOTAL.**--The sum of the daily mean values of discharge for the year. At some stations the annual discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by symbol and corresponding footnotes

**ANNUAL MEAN.**--The arithmetic mean of the individual daily mean discharges for the year noted of for designated period. At some stations the yearly mean discharge is adjusted for reservoir storage diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

**HIGHEST ANNUAL MEAN.**--The maximum annual mean discharge occurring for the designated period.

**LOWEST ANNUAL MEAN.**--The minimum annual mean discharge occurring for the designated period.

**HIGHEST DAILY MEAN.**--The maximum daily mean discharge for the year or for the designated period.

**LOWEST DAILY MEAN.**--The minimum daily mean discharge for the year or for the designated period.

**ANNUAL 7-DAY MINIMUM.**--The lowest mean discharge for 7 consecutive days for a calendar year or a year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

**MAXIMUM PEAK FLOW.**--The maximum instantaneous discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

**MAXIMUM PEAK STAGE.**--The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

**INSTANTANEOUS LOW FLOW.**--The minimum instantaneous discharge occurring for the water year or the designated period.

**ANNUAL RUNOFF.**--Indicates the total quantity of water in runoff for a drainage area for the year. Data may use any of the following units of measurements in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

**10 PERCENT EXCEEDS.**--The discharge has been exceeded 10 percent of the time for the designated period.

**50 PERCENT EXCEEDS.**--The discharge has been exceeded 50 percent of the time for the designated period.

**90 PERCENT EXCEEDS.**--The discharge has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.



### Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

### Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft<sup>3</sup>/s; to the nearest tenth for values between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers for values between 10 and 1,000 ft<sup>3</sup>/s; and to 3 significant figures for values more than 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

### Other Records Available

Records of discharge, not published by the USGS, are collected in Connecticut at several sites by the U.S. Army Corps of Engineers. The National Water Data Exchange

(NAWDEX), U.S. Geological Survey, Reston, VA 20192, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Geological Survey, Connecticut District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the U.S. Geological Survey, Connecticut District.

### Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A **continuing-record station** is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A **partial-record station** is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A **miscellaneous sampling site** is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 3.

### Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection

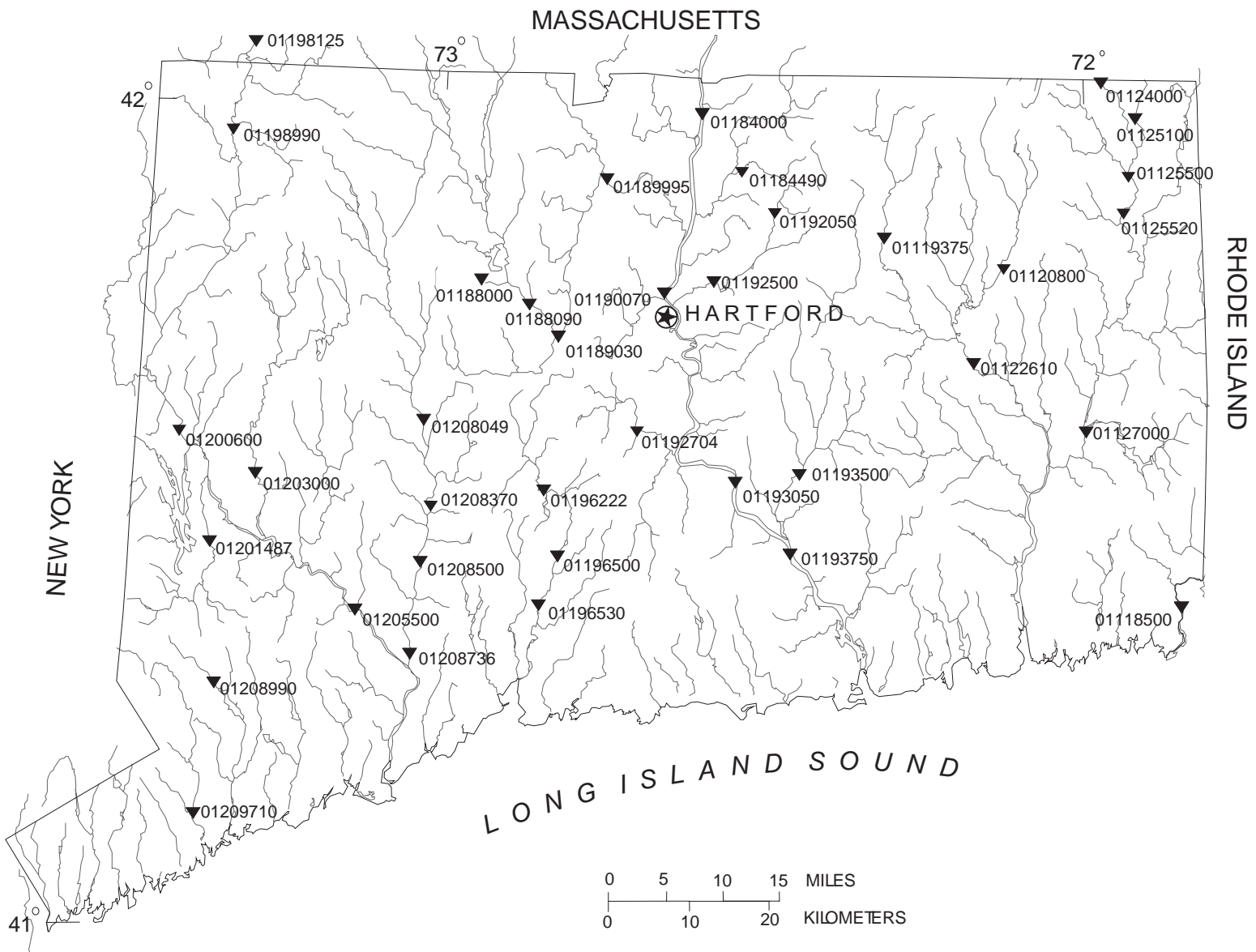


Figure 3. Location of active surface-water-quality stations.

**Pawcatuck River Basin**

01118500 Pawcatuck River at Westerly, RI

**Thames River Basin**

01119375 Willimantic River at Merrow, CT  
 01120800 Natchaug River at Chaplin, CT  
 01122610 Shetucket River at South Windham, CT  
 01124000 Quinebaug River at Quinebaug, CT  
 01125100 French River at North Grosvenordale, CT  
 01125500 Quinebaug River at Putnam, CT  
 01125520 Quinebaug River at Cotton Rd Bridge nr Pomfret Landing, CT  
 01127000 Quinebaug River at Jewett City, CT

**Connecticut River Basin**

01184000 Connecticut River at Thompsonville, CT  
 01184490 Broad Brook at Broad Brook, CT  
 01188000 Burlington Brook near Burlington, CT  
 01188090 Farmington River at Unionville, CT  
 01189030 Pequabuck River at Farmington, CT  
 01189995 Farmington River at Tariffville, CT  
 01190070 Connecticut River at Hartford, CT  
 01192050 Hockanum River near Rockville, CT  
 01192500 Hockanum River near East Hartford, CT  
 01192704 Mattabesset River at Rt 372 at East Berlin, CT  
 01193050 Connecticut River at Middle Haddam, CT  
 01193500 Salmon River near East Hampton, CT  
 01193750 Connecticut River at East Haddam, CT

**Quinnipiac River Basin**

01196222 Quinnipiac River near Meriden, CT  
 01196500 Quinnipiac River at Wallingford, CT  
 01196530 Quinnipiac River at North Haven, CT

**Housatonic River Basin**

01198125 Housatonic River near Ashley Falls, MA  
 01198990 Falls Village Reservoir at Falls Village, CT (temperature only)  
 01200600 Housatonic River near New Milford, CT

01201487 Still River at Rt 7 at Brookfield Center, CT  
 01203000 Shepaug River near Roxbury, CT  
 01205500 Housatonic River at Stevenson, CT  
 01208049 Naugatuck River near Waterville, CT  
 01208370 Naugatuck River below Fulling Mill Brook at Union City, CT  
 01208500 Naugatuck River at Beacon Falls, CT  
 01208736 Naugatuck River at Ansonia, CT

**Saugatuck River Basin**

01208990 Saugatuck River near Redding, CT

**Norwalk River Basin**

01209710 Norwalk River at Winnipauk, CT

unless indicated under "REMARKS." Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

### **On-Site Measurements and Sample Collection**

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in-situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on Techniques of Water Resources Investigations, Book 1, Chap. D2; Book 3, Chap. A1, A3, and A4; and Book 9, Chap. A1-9. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

One sample can adequately define the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling

techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is a result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey, Connecticut District.

### **Water Temperature**

Water temperatures are measured at most water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may closely follow the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file with the U.S. Geological Survey, Connecticut District.

### **Sediment**

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the

subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C 1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

#### **Laboratory Measurements**

Sediment samples are analyzed in Louisville, Ky., samples for indicator bacteria and specific conductance are analyzed locally. All other samples are analyzed in the U.S. Geological Survey laboratories in Denver, Colo. Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the U.S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

#### **Data Presentation**

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments

that follow clarify information presented under the various headings of the station description.

**LOCATION.**--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

**PERIOD of RECORD.**--This indicates periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

**INSTRUMENTATION.**--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

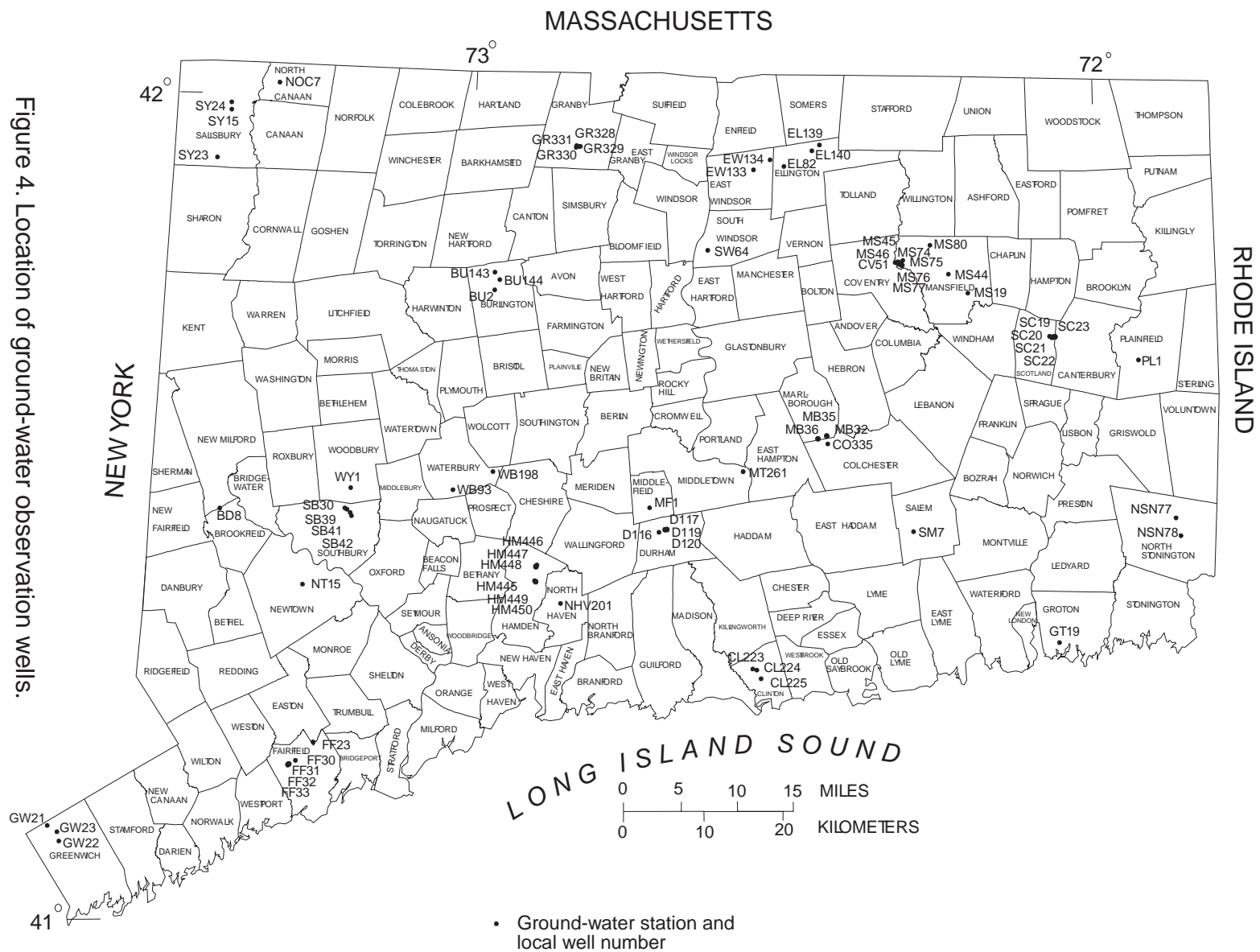
**REMARKS.**--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

**COOPERATION.**--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

**EXTREMES.**--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

**REVISIONS.**--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [<http://water.usgs.gov/nwis/nwis>]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.



**FAIRFIELD COUNTY**

- Well 413007073250501 Local number BD8
- Well 411256073153101 Local number FF23
- Well 411124073172201 Local number FF30
- Well 411118073175801 Local number FF31
- Well 411103073181301 Local number FF32
- Well 411058073182001 Local number FF33
- Well 410628073413301 Local number GW21
- Well 410443073414101 Local number GW22
- Well 410515073415901 Local number GW23
- Well 412429073165101 Local number NT15

**HARTFORD COUNTY**

- Well 414615072581601 Local number BU2
- Well 414704072580501 Local Number BU143
- Well 414649072574401 Local Number BU144
- Well 415450072332201 Local number EW133
- Well 415548072311301 Local number EW134
- Well 415649072494801 Local number GR328
- Well 415647072495901 Local number GR329
- Well 415643072502201 Local number GR330
- Well 415653072501701 Local number GR331
- Well 413535072253701 Local number MB32
- Well 413554072270201 Local number MB35
- Well 413518072264501 Local number MB36
- Well 413724072551101 Local number SW64

**LITCHFIELD COUNTY**

- Well 420125073193001 Local number NOC7
- Well 415925073252001 Local number SY15
- Well 415559073253401 Local number SY23
- Well 415956073241501 Local number SY24
- Well 413202073122401 Local number WY1

**MIDDLESEX COUNTY**

- Well 411832072325501 Local number CL223
- Well 411826072322401 Local number CL224
- Well 411735072315001 Local number CL225
- Well 412809072420701 Local number D116
- Well 412825072410501 Local number D117
- Well 412724072411902 Local number D119
- Well 412824072411901 Local number D120
- Well 413033072432001 Local number MF1
- Well 413254072335501 Local number MT261

**NEW HAVEN COUNTY**

- Well 412423072352801 Local number HM445
- Well 412546072541702 Local number HM446
- Well 412546072541701 Local number HM447
- Well 412541072542001 Local number HM448
- Well 412417072541901 Local number HM449
- Well 412417072541902 Local number HM450
- Well 412307072515201 Local number NHV201
- Well 412954073125201 Local number SB30
- Well 413002073131001 Local number SB39
- Well 412935073122701 Local number SB41
- Well 412916073121701 Local number SB42
- Well 413134073021701 Local number WB93
- Well 413245072584201 Local number WB198

**NEW LONDON COUNTY**

- Well 413457072252201 Local number CO335
- Well 412013072030601 Local number GT19
- Well 412931071514201 Local number NSN77
- Well 412746071510601 Local number NSN78
- Well 412824072173301 Local number SM7

**TOLLAND COUNTY**

- Well 414833072190301 Local number CV51
- Well 415458072291901 Local number EL82
- Well 415640072275801 Local number EL139
- Well 415312072280201 Local number EL140
- Well 414548072114501 Local number MS19
- Well 414741072134501 Local number MS44
- Well 414825072185601 Local number MS45
- Well 414825072185602 Local number MS46
- Well 414843072182601 Local number MS74
- Well 414815072183401 Local number MS75
- Well 414814072183101 Local number MS76
- Well 414844072182701 Local number MS77
- Well 414831072173002 Local number MS80

**WINDHAM COUNTY**

- Well 414054071552001 Local number PL1
- Well 414243072040501 Local number SC19
- Well 414237072034401 Local number SC20
- Well 414240072032201 Local number SC21
- Well 414240072033201 Local number SC22
- Well 414240072032202 Local number SC23

- Real-time data are available on the Internet

## Records of Ground-Water Levels

Water-level data from a national and state network of observation wells are given in this report. These data are intended to provide a historical record of water-level changes in the State. Locations of the observation wells in this network in Connecticut are shown in figure 4.

In this report, records of water levels are presented for 71 wells, obtained through cooperative efforts of the U.S. Geological Survey and the Connecticut Department of Environmental Protection. The records are placed in computer storage, and information about the availability of the data in the water-level file may be obtained from the U.S. Geological Survey, Connecticut District.

### Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, composed of an abbreviation of the town name and a sequential number.

Water-level records are obtained from direct measurements with a steel tape, from a recorder graph, or from a punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description and measurements are reported to the nearest hundredth of a foot.

### Data Presentation

Each well record consists of three parts—the station description, the data table of water levels observed during the water year, and a hydrograph of water levels observed during the most recent 3 water years. The description of the well is presented first through use of descriptive headings preceding the tabular data. The following comments clarify information presented under the various headings.

**LOCATION.**--This paragraph follows the well-identification numbers and reports the latitude and

longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

**AQUIFER.**--This entry designates by name (if a name exists) and geologic age, the aquifer that supplies water to the well.

**WELL CHARACTERISTICS.**--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

**INSTRUMENTATION.**--This paragraph provides information on both the frequency of measurement and the collection methods used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

**DATUM.**--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level; it is reported with a precision depending on the method of determination.

**REMARKS.**--This entry describes factors that may influence the water level in a well or the measurements of the water level.

**PERIOD of RECORD.**--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year.

**EXTREMES FOR PERIOD of RECORD.**--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum, and all taped measurements of water level are listed. For wells equipped with recorders, water-level lows are listed for every day. The highest and lowest water levels of the water year and their dates of occurrence are also shown. Missing records are indicated by dashes in places of water level.

A hydrograph of water levels observed during the most recent 3 water years follows the table of water levels for



each well. The water levels presented are referenced to both the land-surface datum at the site and to sea level. The line on the hydrograph represents the water-level trend, even though it is a solid line.

### Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites the records consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

### Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be obtained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

### Data Presentation

The records of ground-water quality are published in a section titled QUALITY of GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by county, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records, are also applicable to ground-water-quality records.

### ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for the most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed at:

<http://water.usgs.gov>

or locally for Connecticut at:

<http://ct.water.usgs.gov>

Some water-quality and ground-water data also are available through the WWW. Past years data for Connecticut are available on the District home page listed above. In addition, data can be provided in various machine-readable formats. Information about the availability of specific types of data or products, and users charges, can be obtained locally from each of the Water Resources Division District offices. (See address on the back of the title page.)

### DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound units to International System (SI) units on the inside of the back cover.

**Acid neutralizing capacity** (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

**Acre-foot** (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

**Adenosine triphosphate** (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

**Algal growth potential** (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

**Alkalinity** is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

**Annual runoff** is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

**Annual 7-day minimum** is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

**Aroclor** is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

**Artificial substrate** is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

**Ash mass** is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter ( $\text{g/m}^3$ ), and periphyton and benthic organisms in grams per square meter ( $\text{g/m}^2$ ). (See also "Biomass" and "Dry mass")

**Aspect** is the direction toward which a slope faces with respect to the compass.

**Bacteria** are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

**Bankfull stage**, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

**Base discharge** (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

**Base flow** is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

**Bedload** is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 foot) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

**Bedload discharge** (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also “Bedload,” “Dry weight,” “Sediment,” and “Suspended-sediment discharge”)

**Bed material** is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also “Bedload” and “Sediment”)

**Benthic organisms** are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

**Biochemical oxygen demand** (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

**Biomass** is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

**Biomass pigment ratio** is an indicator of the total proportion of periphyton that are autotrophic (plants). This is also called the Autotrophic Index.

**Blue-green algae** (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

**Bottom material** (See “Bed material”)

**Bulk electrical conductivity** is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock.

**Cells/volume** refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

**Cells volume** (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume ( $\mu\text{m}^3$ ) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } \frac{4}{3} \pi r^3 \quad \text{cone } \frac{1}{3} \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

$\pi$  ( $\pi$ ) is the ratio of the circumference to the diameter of a circle;  $\pi = 3.14159\dots$

From cell volume, total algal biomass expressed as biovolume ( $\mu\text{m}^3/\text{mL}$ ) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

**Cfs-day** (See “Cubic foot per second-day”)

**Channel bars**, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

**Chemical oxygen demand** (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also “Biochemical oxygen demand (BOD)”]

***Clostridium perfringens*** (*C. perfringens*) is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also “Bacteria”)

**Coliphages** are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

**Color unit** is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

**Confined aquifer** is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

**Contents** is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

**Continuous-record station** is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

**Control** designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

**Control structure**, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

**Cubic foot per second** (CFS,  $\text{ft}^3/\text{s}$ ) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term “second-foot” sometimes is used synonymously with “cubic foot per second” but is now obsolete.

**Cubic foot per second-day** (CFS-DAY, Cfs-day,  $[(\text{ft}^3/\text{s})/\text{d}]$ ) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

**Cubic foot per second per square mile** [CFSM,  $(\text{ft}^3/\text{s})/\text{mi}^2$ ] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also “Annual runoff”)

**Daily mean suspended-sediment concentration** is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also “Sediment” and “Suspended-sediment concentration”)

**Daily-record station** is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

**Data collection platform** (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

**Data logger** is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

**Datum** is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also “Gage datum,” “Land-surface datum,” “National Geodetic Vertical Datum of 1929,” and “North American Vertical Datum of 1988”)

**Diatoms** are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also “Phytoplankton”)

**Diel** is of or pertaining to a 24-hour period of time; a regular daily cycle.

**Discharge**, or **flow**, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

**Dissolved** refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of “dissolved” constituent concentrations are made on sample water that has been filtered.

**Dissolved oxygen (DO)** is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

**Dissolved-solids concentration** in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the “residue-on-evaporation” method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO<sub>3</sub>) can be converted to carbonate concentration by multiplying by 0.60.

**Diversity index (H)** (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

where  $n_i$  is the number of individuals per taxon,  $n$  is the total number of individuals, and  $s$  is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

**Drainage area** of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

**Drainage basin** is a part of the Earth’s surface that contains a drainage system with a common outlet for its surface runoff. (See “Drainage area”)

**Dry mass** refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also “Ash mass,” “Biomass,” and “Wet mass”)

**Dry weight** refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also “Wet weight”)

**Embeddedness** is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also “Substrate embeddedness class”)

**Enterococcus bacteria** are commonly found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus fecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants. (See also “Bacteria”)

**EPT Index** is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive; the index usually decreases with pollution.

**Escherichia coli** (*E. coli*) are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

**Estimated (E) concentration value** is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an ‘E’ code will be reported with the value.

If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

**Euglenoids** (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

**Extractable organic halides** (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

**Fecal coliform bacteria** are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

**Fecal streptococcal bacteria** are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

**Fire algae** (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

**Flow-duration percentiles** are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

**Gage datum** is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

**Gage height** (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

**Gage values** are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

**Gaging station** is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

**Gas chromatography/flame ionization detector** (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

**Geomorphic channel units**, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

**Green algae** have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

**Habitat**, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat are typically made over a wider geographic scale than are measurements of species distribution.

**Habitat quality index** is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

**Hardness** of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ( $\text{CaCO}_3$ ).

**High tide** is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site:*  
<http://www.co-ops.nos.noaa.gov/tideglos.html>

**Hilsenhoff's Biotic Index (HBI)** is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = \sum \frac{(n)(a)}{N},$$

where  $n$  is the number of individuals of each taxon,  $a$  is the tolerance value of each taxon, and  $N$  is the total number of organisms in the sample.

**Horizontal datum** (See "Datum")

**Hydrologic index stations** referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

**Hydrologic unit** is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

**Inch** (IN., in.), as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it. (See also "Annual runoff")

**Instantaneous discharge** is the discharge at a particular instant of time. (See also "Discharge")

**Island**, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year on average, and remains stable except during large flood events.

**Laboratory reporting level (LRL)** is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.]

**Land-surface datum** (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

**Latent heat flux** (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

**Light-attenuation coefficient**, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda L},$$

where  $I_o$  is the source light intensity,  $I$  is the light intensity at length  $L$  (in meters) from the source,  $\lambda$  is the light-attenuation coefficient, and  $e$  is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_o}.$$

**Lipid** is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

**Long-term method detection level (LT-MDL)** is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

**Low tide** is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site:*  
<http://www.co-ops.nos.noaa.gov/tideglos.html>

**Macrophytes** are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

**Mean concentration of suspended sediment** (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also “Daily mean suspended-sediment concentration” and “Suspended-sediment concentration”)

**Mean discharge** (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also “Discharge”)

**Mean high or low tide** is the average of all high or low tides, respectively, over a specific period.

**Mean sea level** is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also “Datum”)

**Measuring point** (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

**Membrane filter** is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

**Metamorphic stage** refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

**Method detection limit (MDL)** is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

**Methylene blue active substances (MBAS)** are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

**Micrograms per gram (UG/G,  $\mu\text{g/g}$ )** is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

**Micrograms per kilogram (UG/KG,  $\mu\text{g/kg}$ )** is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

**Micrograms per liter (UG/L,  $\mu\text{g/L}$ )** is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

**Microsiemens per centimeter (US/CM,  $\mu\text{S/cm}$ )** is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

**Milligrams per liter (MG/L,  $\text{mg/L}$ )** is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.



**Minimum reporting level (MRL)** is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

**Miscellaneous site**, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

**Most probable number (MPN)** is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

**Multiple-plate samplers** are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

**Nanograms per liter (NG/L, ng/L)** is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

**National Geodetic Vertical Datum of 1929 (NGVD of 1929)** is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. See NOAA web site: <http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88> (See "North American Vertical Datum of 1988")

**Natural substrate** refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

**Nekton** are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

**Nephelometric turbidity unit (NTU)** is the measurement for reporting turbidity that is based on use of a standard suspension of formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

**North American Vertical Datum of 1988 (NAVD 1988)** is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

**Open or screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

**Organic carbon (OC)** is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

**Organic mass or volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

**Organism count/area** refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m<sup>2</sup>), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

**Organism count/volume** refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

**Organochlorine compounds** are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

**Parameter code** is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

**Partial-record station** is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

**Particle size** is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

**Particle-size classification**, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

**Peak flow (peak stage)** is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

**Percent composition or percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

**Percent shading** is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

**Periodic-record station** is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

**Periphyton** is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

**Pesticides** are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

**pH** of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

**Phytoplankton** is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also "Plankton")

**Picocurie (PC, pCi)** is one trillionth ( $1 \times 10^{-12}$ ) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

**Plankton** is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

**Polychlorinated biphenyls (PCBs)** are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

**Polychlorinated naphthalenes (PCNs)** are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

**Pool**, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

**Primary productivity** is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

**Primary productivity (carbon method)** is expressed as milligrams of carbon per area per unit time [ $\text{mg C}/(\text{m}^2/\text{time})$ ] for periphyton and macrophytes or per volume [ $\text{mg C}/(\text{m}^3/\text{time})$ ] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

**Primary productivity (oxygen method)** is expressed as milligrams of oxygen per area per unit time [ $\text{mg O}/(\text{m}^2/\text{time})$ ] for periphyton and macrophytes or per volume [ $\text{mg O}/(\text{m}^3/\text{time})$ ] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

**Radioisotopes** are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary

chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

**Reach**, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

**Recoverable from bed (bottom) material** is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

**Recurrence interval**, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ( $7Q_{10}$ ) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the  $7Q_{10}$  occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for

annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the  $7Q_{10}$ .

**Replicate samples** are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

**Return period** (See "Recurrence interval")

**Riffle**, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

**River mileage** is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

**Run**, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

**Runoff** is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

**Sea level**, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

**Sediment** is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of pre-precipitation.

**Sensible heat flux** (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a

specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

**Seven-day, 10-year low flow ( $7Q_{10}$ )** is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the  $7Q_{10}$  is 10 years; the chance that the annual 7-day minimum flow will be less than the  $7Q_{10}$  is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

**Shelves**, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

**Sodium adsorption ratio (SAR)** is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

**Soil heat flux** (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

**Soil-water content** is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

**Specific electrical conductance (conductivity)** is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

**Stable isotope ratio** (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

**Stage** (See “Gage height”)

**Stage-discharge relation** is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

**Streamflow** is the discharge that occurs in a natural channel. Although the term “discharge” can be applied to the flow of a canal, the word “streamflow” uniquely describes the discharge in a surface stream course. The term “streamflow” is more general than “runoff” as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

**Substrate** is the physical surface upon which an organism lives.

**Substrate embeddedness class** is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0 no gravel or larger substrate	3 26-50 percent
1 > 75 percent	4 5-25 percent
2 51-75 percent	5 < 5 percent

**Surface area of a lake** is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

**Surficial bed material** is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

**Suspended** (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is defined operationally as the material retained on a 0.45-micrometer filter.

**Suspended, recoverable** is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the “total” amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories per-

forming such analyses because different digestion procedures are likely to produce different analytical results. Determinations of “suspended, recoverable” constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also “Suspended”)

**Suspended sediment** is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also “Sediment”)

**Suspended-sediment concentration** is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also “Sediment” and “Suspended sediment”)

**Suspended-sediment discharge** (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft<sup>3</sup>/s) x 0.0027. (See also “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

**Suspended-sediment load** is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also “Sediment”)

**Suspended, total** is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as “suspended, total.” Determinations of “suspended, total” constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also “Suspended”)

**Suspended solids, total residue at 105 °C concentration** is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

**Synoptic studies** are short-term investigations of specific water-quality conditions during selected seasonal or hydro-logic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

**Taxa (Species) richness** is the number of species (taxa) present in a defined area or sampling unit.

**Taxonomy** is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	<i>Hexagenia</i>
Species:	<i>Hexagenia limbata</i>

**Thalweg** is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

**Thermograph** is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

**Time-weighted average** is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

**Tons per acre-foot** (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is com-

puted by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

**Tons per day** (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

**Total** is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

**Total coliform bacteria** are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

**Total discharge** is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

**Total in bottom material** is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

**Total length** (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

**Total load** refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

**Total organism count** is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

**Total recoverable** is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

**Total sediment discharge** is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

**Total sediment load** or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

**Transect**, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

**Turbidity** is the reduction in the transparency of a solution due to the presence of suspended and some dissolved sub-

stances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to U.S. EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

**Ultraviolet (UV) absorbance (absorption)** at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

**Unconfined aquifer** is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

**Vertical datum** (See "Datum")

**Volatile organic compounds (VOCs)** are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens.

**Water table** is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

**Water-table aquifer** is an unconfined aquifer within which the water table is found.

**Water year** in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the “2002 water year.”

**WDR** is used as an abbreviation for “Water-Data Report” in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for “Water-Resources Data” in reports published prior to 1976.)

**Weighted average** is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

**Wet mass** is the mass of living matter plus contained water. (See also “Biomass” and “Dry mass”)

**Wet weight** refers to the weight of animal tissue or other substance including its contained water. (See also “Dry weight”)

**WSP** is used as an acronym for “Water-Supply Paper” in reference to previously published reports.

**Zooplankton** is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also “Plankton”)

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The USGS publishes a series of manuals titled the “Techniques of Water-Resources Investigations” that describe procedures for planning and conducting specialized work in water-resources investigations. The material in these manuals is grouped under major subject headings called books and is further divided into sections and chapters. For exam-

ple, section A of book 3 (Applications of Hydraulics) pertains to surface water. Each chapter then is limited to a narrow field of the section subject matter. This publication format permits flexibility when revision or printing is required.

Manuals in the Techniques of Water-Resources Investigations series, which are listed below, are available online at <http://water.usgs.gov/pubs/twri/>. Printed copies are available for sale from the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (an authorized agent of the Superintendent of Documents, Government Printing office). Please telephone “1-888-ASK-USGS” for current prices, and refer to the title, book number, section number, chapter number, and mention the “U.S. Geological Survey Techniques of Water-Resources Investigations.” Other products can be viewed online at <http://www.usgs.gov/sales.html>, or ordered by telephone or by FAX to (303)236-4693. Order forms for FAX requests are available online at <http://mac.usgs.gov/isb/pubs/forms/>. Prepayment by major credit card or by a check or money order payable to the “U.S. Geological Survey” is required.

### Book 1. Collection of Water Data by Direct Measurement

#### Section D. Water Quality

- 1–D1. *Water temperature—Influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.
- 1–D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

### Book 2. Collection of Environmental Data

#### Section D. Surface Geophysical Methods

- 2–D1. *Application of surface geophysics to ground-water investigations*, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.
- 2–D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

#### Section E. Subsurface Geophysical Methods

- 2–E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.



- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS-TWRI book 2, chap. E2. 1990. 150 p.

### **Section F. Drilling and Sampling Methods**

- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS-TWRI book 2, chap. F1. 1989. 97 p.

## **Book 3. Applications of Hydraulics**

### **Section A. Surface-Water Techniques**

- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS-TWRI book 3, chap. A1. 1967. 30 p.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS-TWRI book 3, chap. A2. 1967. 12 p.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS-TWRI book 3, chap. A3. 1968. 60 p.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS-TWRI book 3, chap. A5. 1967. 29 p.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS-TWRI book 3, chap. A6. 1968. 13 p.
- 3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A7. 1968. 28 p.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS-TWRI book 3, chap. A8. 1969. 65 p.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS-TWRI book 3, chap. A9. 1989. 27 p.
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS-TWRI book 3, chap. A10. 1984. 59 p.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS-TWRI book 3, chap. A11. 1969. 22 p.

- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS-TWRI book 3, chap. A12. 1986. 34 p.

- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS-TWRI book 3, chap. A13. 1983. 53 p.

- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS-TWRI book 3, chap. A14. 1983. 46 p.

- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS-TWRI book 3, chap. A15. 1984. 48 p.

- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS-TWRI book 3, chap. A16. 1985. 52 p.

- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS-TWRI book 3, chap. A17. 1985. 38 p.

- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS-TWRI book 3, chap. A18. 1989. 52 p.

- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS-TWRI book 3, chap. A19. 1990. 31 p.

- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS-TWRI book 3, chap. A20. 1993. 38 p.

- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS-TWRI book 3, chap. A21. 1995. 56 p.

### **Section B. Ground-Water Techniques**

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS-TWRI book 3, chap. B1. 1971. 26 p.

- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS-TWRI book 3, chap. B2. 1976. 172 p.

- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS-TWRI book 3, chap. B3. 1980. 106 p.

- 3-B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS-TWRI book 3, chap. B4. 1990. 232 p.

- 3–B4. *Supplement 1. Regression modeling of ground-water flow—Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.
- 3–B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 p.
- 3–B6. *The principle of superposition and its application in ground-water hydraulics*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.
- 3–B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.
- 3–B8. *System and boundary conceptualization in ground-water flow simulation*, by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

### **Section C. Sedimentation and Erosion Techniques**

- 3–C1. *Fluvial sediment concepts*, by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.
- 3–C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.
- 3–C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

## **Book 4. Hydrologic Analysis and Interpretation**

### **Section A. Statistical Analysis**

- 4–A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.
- 4–A2. *Frequency curves*, by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.
- 4–A3. *Statistical methods in water resources*, by D.R. Helsel and R.M. Hirsch: USGS–TWRI book 4, chap. A3. 1991. Available only online at <http://water.usgs.gov/pubs/twri/twri4a3/>. (Accessed August 30, 2002.)

### **Section B. Surface Water**

- 4–B1. *Low-flow investigations*, by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.
- 4–B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.
- 4–B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

### **Section D. Interrelated Phases of the Hydrologic Cycle**

- 4–D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

## **Book 5. Laboratory Analysis**

### **Section A. Water Analysis**

- 5–A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.
- 5–A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.
- 5–A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 p.
- 5–A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.
- 5–A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 p.
- 5–A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

### **Section C. Sediment Analysis**

- 5–C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

**Book 6. Modeling Techniques****Section A. Ground Water**

- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS-TWRI book 6, chap. A1. 1988. 586 p.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S.A. Leake and D.E. Prudic: USGS-TWRI book 6, chap. A2. 1991. 68 p.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L.J. Torak: USGS-TWRI book 6, chap. A3. 1993. 136 p.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R.L. Cooley: USGS-TWRI book 6, chap. A4. 1992. 108 p.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L.J. Torak: USGS-TWRI book 6, chap. A5. 1993. 243 p.
- 6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS-TWRI book 6, chap. A6. 1996. 125 p.
- 6-A7. *User's guide to SEAWAT: A computer program for simulation of three-dimensional variable-density ground-water flow*, by Weixing Guo and Christian D. Langevin: USGS-TWRI book 6, chap. A7. 2002. 77 p.

**Book 7. Automated Data Processing and Computations****Section C. Computer Programs**

- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS-TWRI book 7, chap. C1. 1976. 116 p.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS-TWRI book 7, chap. C2. 1978. 90 p.

- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS-TWRI book 7, chap. C3. 1981. 110 p.

**Book 8. Instrumentation****Section A. Instruments for Measurement of Water Level**

- 8-A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS-TWRI book 8, chap. A1. 1968. 23 p.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS-TWRI book 8, chap. A2. 1983. 57 p.

**Section B. Instruments for Measurement of Discharge**

- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS-TWRI book 8, chap. B2. 1968. 15 p.

**Book 9. Handbooks for Water-Resources Investigations****Section A. National Field Manual for the Collection of Water-Quality Data**

- 9-A1. *National field manual for the collection of water-quality data: Preparations for water sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibbs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A1. 1998. 47 p.
- 9-A2. *National field manual for the collection of water-quality data: Selection of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibbs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A2. 1998. 94 p.
- 9-A3. *National field manual for the collection of water-quality data: Cleaning of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibbs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A3. 1998. 75 p.
- 9-A4. *National field manual for the collection of water-quality data: Collection of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibbs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A4. 1999. 156 p.
- 9-A5. *National field manual for the collection of water-quality data: Processing of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibbs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A5. 1999. 149 p.

- 9–A6. *National field manual for the collection of water-quality data: Field measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variousy paginated.
- 9–A7. *National field manual for the collection of water-quality data: Biological indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variousy paginated.
- 9–A8. *National field manual for the collection of water-quality data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.
- 9–A9. *National field manual for the collection of water-quality data: Safety in field activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

**SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS****Remark Codes**

The following codes may appear with the water-quality data in this section:

PRINTED OUTPUT	REMARK
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.
k	Results based on colony count outside the acceptable range (non-ideal colony count)

**Dissolved Trace-Element Concentrations**

\*NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ( $\mu\text{g/L}$ ) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter ( $\text{ng/L}$ ). Data above the  $\mu\text{g/L}$  level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

**Change in National Trends Network Procedures**

\*NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable.

**LOCATION.**--Lat 41°28'29", long 71°50'05", New London County, Hydrologic Unit 01090005, on left bank just upstream from twin culverts on Grindstone Hill Rd., 0.1 mi west of State Rt. 49 in the township of North Stonington, 1.6 mi northwest of Clarks Falls, and 3.4 mi northeast of village of North Stonington.

PERIOD of RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR CT-85-1: 1982 (P).

**GAGE.**--Water-stage recorder. Datum of gage is 152.90 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good, except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 70 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
------	------	-----------------------------------	---------------------	------	------	-----------------------------------	---------------------

No peak greater than base discharge.

Minimum discharge, 0.02 ft<sup>3</sup>/s, Aug. 28, gage height, 0.73 ft.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	1.1	1.4	e1.4	3.8	3.5	29	14	10	1.4	0.17	0.18
2	3.1	1.1	1.2	e1.4	4.1	3.4	21	15	6.8	1.2	0.13	1.5
3	1.8	1.1	1.0	e1.3	3.3	21	16	18	5.1	1.1	0.20	1.9
4	1.2	1.3	0.98	e1.3	e2.7	17	14	13	4.4	0.94	0.20	2.1
5	0.90	1.3	0.98	e1.2	e2.5	10	12	11	5.1	0.80	0.15	1.4
6	0.81	1.4	0.95	e1.2	e2.3	7.3	10	9.1	7.7	0.69	0.12	0.66
7	0.78	1.3	0.98	5.1	2.6	6.2	8.5	8.3	38	0.65	0.10	0.41
8	0.68	1.1	0.95	3.5	2.7	5.4	7.8	7.7	22	0.68	0.08	0.31
9	0.76	1.1	1.9	2.7	2.5	5.1	7.5	7.0	13	0.63	0.07	0.23
10	0.81	1.1	1.9	2.9	2.4	11	18	7.4	8.7	0.62	0.06	0.18
11	0.74	1.1	1.6	3.5	5.9	9.8	13	6.3	6.7	0.54	0.06	0.17
12	0.72	1.0	1.5	4.0	e3.8	7.3	9.9	6.9	5.8	0.48	0.05	0.15
13	0.70	1.0	1.3	9.3	e3.1	6.8	8.5	19	5.4	0.44	0.05	0.14
14	0.76	1.0	1.4	8.3	e2.8	7.1	8.0	39	6.0	0.42	0.05	0.13
15	1.0	1.0	2.1	e6.0	e2.6	6.0	7.7	24	8.0	0.42	0.04	0.14
16	1.3	1.1	1.6	e4.5	2.9	5.8	7.1	16	7.3	0.43	0.04	2.6
17	1.7	1.0	1.4	e4.0	3.0	5.2	6.6	12	7.4	0.39	0.04	1.9
18	1.2	1.00	4.2	e3.4	3.5	5.3	6.2	34	5.6	0.34	0.04	0.97
19	1.00	0.97	3.2	e3.0	3.0	6.7	5.8	30	4.5	0.31	0.03	0.61
20	0.96	1.0	1.9	e2.8	2.8	10	5.5	20	4.0	0.43	0.03	0.48
21	0.95	1.0	1.4	e2.6	6.2	19	5.1	15	3.4	0.44	0.04	0.40
22	0.95	0.96	1.1	e2.4	5.0	12	6.1	12	3.0	0.37	0.04	0.35
23	0.98	0.94	0.98	4.7	3.9	8.6	7.4	10	2.7	0.33	0.03	3.3
24	1.00	0.95	6.6	6.1	3.3	7.1	6.4	8.9	2.4	0.40	0.03	1.9
25	1.1	1.1	5.7	5.8	2.9	6.2	7.0	7.7	2.1	0.36	0.03	1.1
26	1.1	2.3	3.5	4.7	2.9	6.6	13	7.2	2.1	0.29	0.04	0.84
27	1.0	1.7	2.6	3.9	3.3	22	9.3	6.8	1.9	0.26	0.03	5.9
28	1.00	1.5	2.1	3.5	4.0	17	13	7.0	1.8	0.29	0.03	4.3
29	1.00	1.3	e1.8	3.3	---	12	18	6.7	1.6	0.34	0.18	2.3
30	1.0	1.4	e1.6	3.2	---	10	13	5.9	1.4	0.33	0.72	1.5
31	1.0	---	e1.5	3.1	---	9.8	---	6.4	---	0.24	0.31	---
TOTAL	37.30	35.22	61.32	114.1	93.8	290.2	320.4	411.3	203.9	16.56	3.19	38.05
MEAN	1.20	1.17	1.98	3.68	3.35	9.36	10.7	13.3	6.80	0.53	0.10	1.27
MAX	5.3	2.3	6.6	9.3	6.2	22	29	39	38	1.4	0.72	5.9
MIN	0.68	0.94	0.95	1.2	2.3	3.4	5.1	5.9	1.4	0.24	0.03	0.13
CFSM	0.30	0.29	0.49	0.92	0.83	2.33	2.66	3.30	1.69	0.13	0.03	0.32
IN.	0.35	0.33	0.57	1.06	0.87	2.69	2.96	3.81				

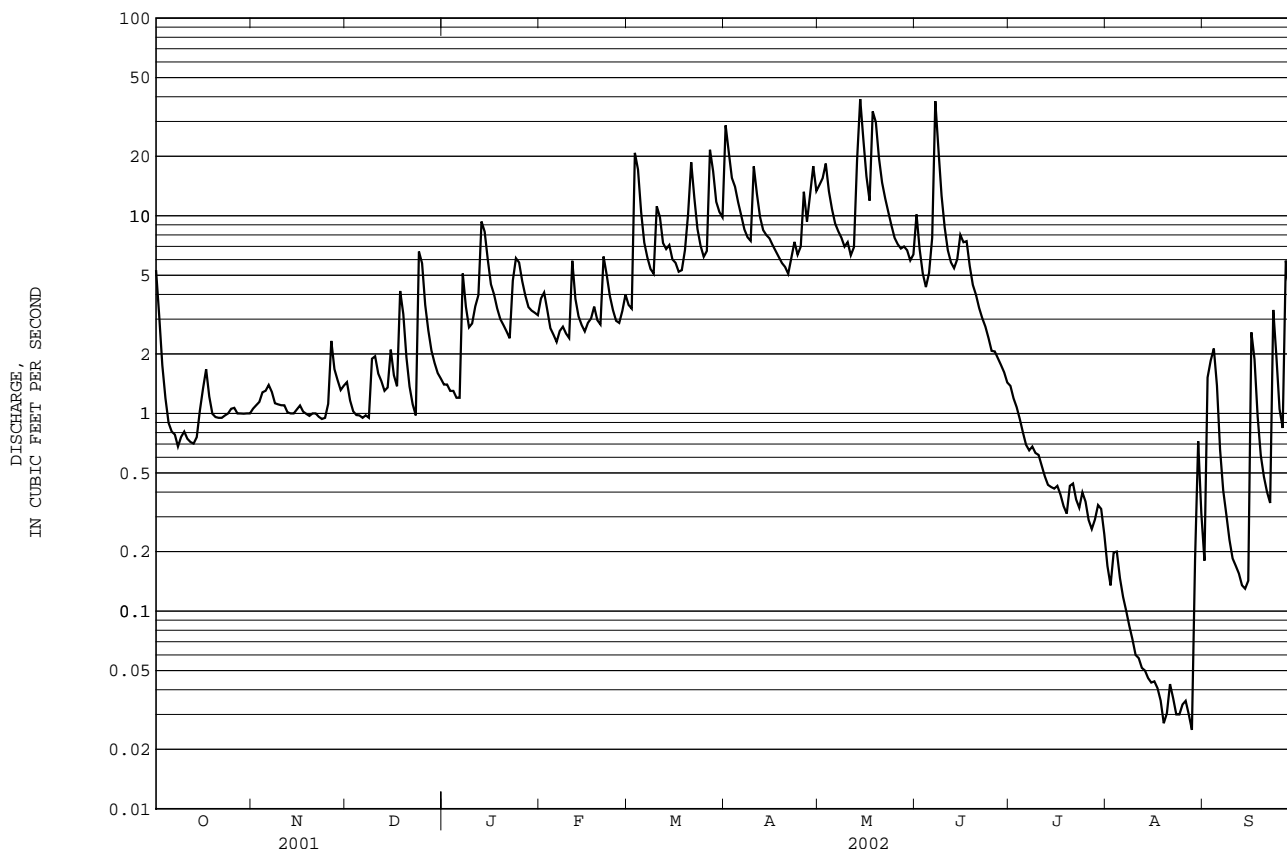
STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

MEAN	3.73	7.78	11.7	12.1	12.5	16.5	15.2	10.5	6.63	2.52	2.06	2.03
MAX	14.9	19.7	28.8	43.6	22.3	31.5	48.2	23.2	32.4	10.5	12.4	10.4
(WY)	1990	1973	1987	1979	1982	1994	1983	1979	1982	1959	1986	1961
MIN	0.83	1.09	1.84	1.69	2.95	6.91	4.29	3.93	0.82	0.17	0.12	0.049
(WY)	1964	2002	1966	1981	1980	1981	1999	1986	1999	1994	1999	1980

e Estimated.

## 01118300 PENDLETON HILL BROOK NEAR CLARKS FALLS, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1959 - 2002	
ANNUAL TOTAL	3213.94		1685.15		8.58	
ANNUAL MEAN	8.81		4.62		13.1	
HIGHEST ANNUAL MEAN					4.30	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	100	Mar 22	39	May 14	251	Mar 18 1968
LOWEST DAILY MEAN	0.52	Sep 13	0.04	Aug 19	0.01	Sep 9 1980
ANNUAL SEVEN-DAY MINIMUM	0.59	Sep 8	0.04	Aug 22	0.01	Sep 9 1980
MAXIMUM PEAK FLOW			49	May 18	375	Jun 5 1982
MAXIMUM PEAK STAGE			2.61	May 18	6.73	Jun 5 1982
INSTANTANEOUS LOW FLOW			0.02	Aug 28	0.00	Aug 22 1987
ANNUAL RUNOFF (CFSM)	2.19		1.15		2.13	
ANNUAL RUNOFF (INCHES)	29.74		15.59		29.00	
10 PERCENT EXCEEDS	22		12		19	
50 PERCENT EXCEEDS	4.1		2.2		5.7	
90 PERCENT EXCEEDS	0.90		0.27		0.57	



## PAWCATUCK RIVER BASIN

## 01118500 PAWCATUCK RIVER AT WESTERLY, RI

**LOCATION.**--Lat 41°23'01", long 71°50'01", Washington County, Hydrologic Unit 01090005, on left bank at Westerly, 2.1 mi downstream from Shupock River.

**DRAINAGE AREA.**--295 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--November 1940 to current year.

**REVISED RECORDS.**--WSP 1051: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 1.76 ft below sea level.

**REMARKS.**--Records good; many days are adjusted for tidal backwater which lasts as much as 4 hours during times of high tide.

Diurnal fluctuation at low flow prior to 1962 by mills upstream; regulation much greater prior to 1958. Diversion upstream for municipal supply of Westerly.

**EXTREMES OUTSIDE PERIOD of RECORD.**--Flood in March 1936 reached a discharge of 3,150 ft<sup>3</sup>/s, by computation of flow over dam 1.5 mi upstream. Maximum discharge since 1886 occurred in November 1927 and was possibly more than twice that in March 1936. Maximum stage since at least 1635, 15.0 ft Sept. 21, 1938, due to hurricane tidal wave.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 1,660 ft<sup>3</sup>/s, May 19, gage height, 6.43 ft; minimum discharge, 56 ft<sup>3</sup>/s, Aug. 28, 29, gage height, 3.89 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	88	94	147	234	224	803	735	580	231	133	89
2	257	89	93	142	245	215	999	714	566	211	128	110
3	248	91	90	139	239	344	932	799	501	196	131	143
4	219	91	87	134	227	572	825	800	446	184	134	140
5	193	89	85	132	215	578	720	700	427	173	129	117
6	170	91	84	134	201	484	637	615	447	157	126	89
7	166	90	86	188	196	408	584	561	888	150	121	74
8	150	88	90	211	204	363	543	532	1270	149	118	70
9	131	85	100	196	212	331	519	506	1140	149	114	68
10	113	85	112	187	193	357	547	489	902	150	116	66
11	108	85	110	190	227	420	601	477	717	149	111	66
12	106	82	110	213	268	406	571	459	593	144	106	66
13	100	83	133	273	259	372	531	549	530	147	99	62
14	100	83	136	383	246	367	509	1140	509	150	93	60
15	101	81	144	381	214	356	497	1360	535	151	91	59
16	103	78	144	352	209	336	487	1270	559	145	87	77
17	114	77	140	312	211	321	469	1060	587	147	86	96
18	115	78	176	279	216	313	447	1170	575	144	81	100
19	111	81	244	253	210	345	426	1600	521	147	77	87
20	102	82	230	243	201	380	412	1540	458	160	74	77
21	99	84	195	234	219	583	406	1320	401	160	71	72
22	102	85	174	249	254	632	399	1130	365	155	69	69
23	101	81	163	256	248	554	429	971	348	151	68	77
24	110	82	199	284	227	472	434	853	335	159	68	94
25	116	86	267	313	212	419	421	764	305	163	67	94
26	106	110	251	307	206	397	516	689	281	155	65	83
27	100	122	217	282	215	608	561	644	291	147	63	114
28	92	115	195	257	227	810	576	620	291	146	59	169
29	90	107	183	242	---	785	730	597	291	150	64	151
30	89	98	173	233	---	680	759	573	261	149	94	120
31	88	---	158	227	---	616	---	547	---	142	96	---
TOTAL	4003	2667	4663	7373	6235	14048	17290	25784	15920	4911	2939	2759
MEAN	129	88.9	150	238	223	453	576	832	531	158	94.8	92.0
MAX	257	122	267	383	268	810	999	1600	1270	231	134	169
MIN	88	77	84	132	193	215	399	459	261	142	59	59
CFSM	0.44	0.30	0.51	0.81	0.75	1.54	1.95	2.82	1.80	0.54	0.32	0.31
IN.	0.50	0.34	0.59	0.93	0.79	1.77	2.18	3.25	2.01	0.62	0.37	0.35

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

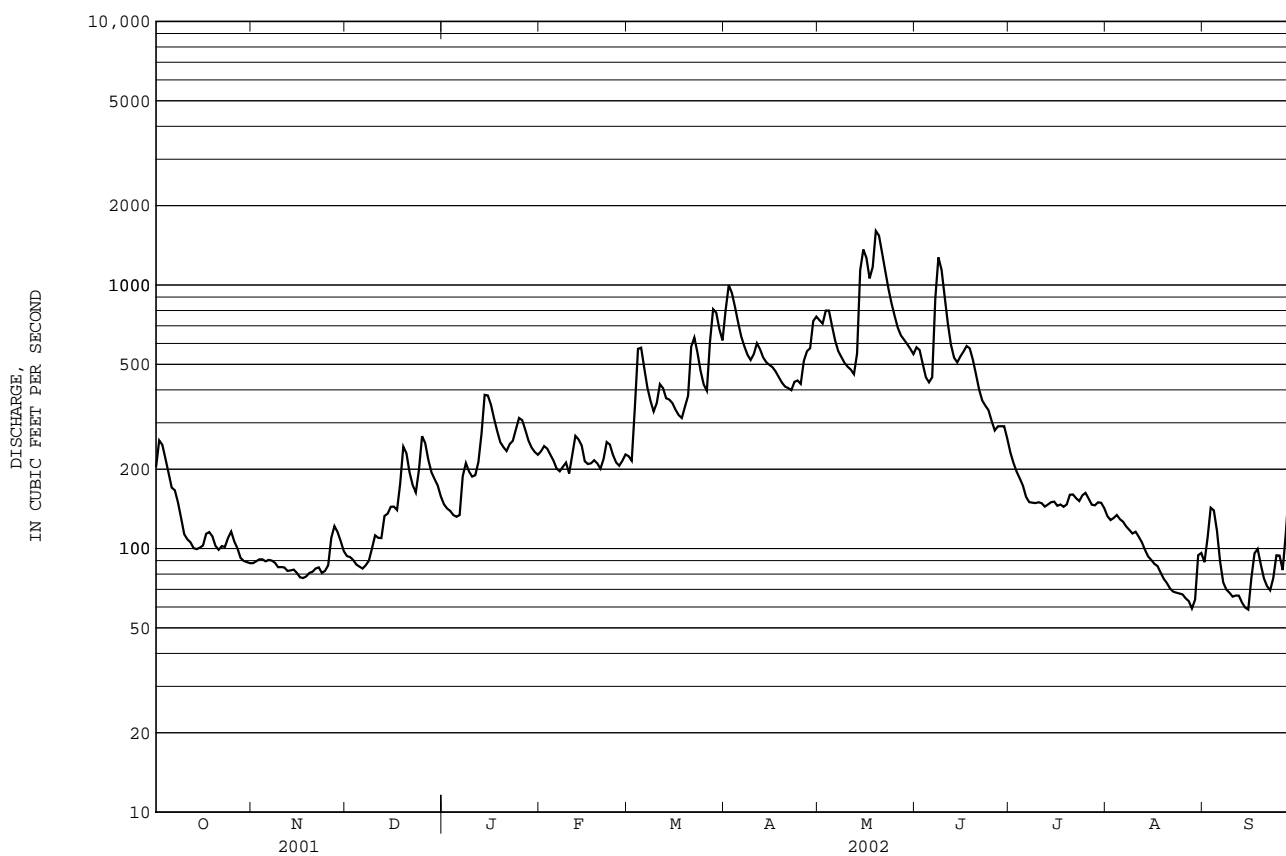
	MEAN	256	441	648	744	812	1044	985	718	510	264	231	216
MAX	1186	1450	1789	2151	1377	1775	2603	1274	2246	642	763	1233	
(WY)	1956	1956	1987	1979	1982	1994	1983	1948	1982	1959	1946	1954	
MIN	87.2	88.9	115	131	223	453	371	325	210	98.5	71.9	65.7	
(WY)	1950	2002	1966	1981	2002	2002	1966	1986	1942	1957	1999	1964	



## 01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR		WATER YEARS 1941 - 2002	
ANNUAL TOTAL	217246			108592			
ANNUAL MEAN	595			298			
HIGHEST ANNUAL MEAN						574	
LOWEST ANNUAL MEAN						871	1973
HIGHEST DAILY MEAN	3310	Mar 31		1600	May 19	251	1981
LOWEST DAILY MEAN	77	Nov 17		59	Aug 28	6220	Jun 6 1982
ANNUAL SEVEN-DAY MINIMUM	80	Nov 14		64	Sep 9	25	Aug 17 1941
MAXIMUM PEAK FLOW				1660	May 19	47	Sep 2 1995
MAXIMUM PEAK STAGE				6.43	May 19	7070	Jun 6 1982
INSTANTANEOUS LOW FLOW				a56	Aug 28	12.86	Jun 6 1982
ANNUAL RUNOFF (CFSM)	2.02			1.01		1.95	
ANNUAL RUNOFF (INCHES)	27.40			13.69		26.43	
10 PERCENT EXCEEDS	1540			625		1200	
50 PERCENT EXCEEDS	402			196		447	
90 PERCENT EXCEEDS	92			83		126	

a Also occurred Aug. 29.



PERIOD of RECORD.--Water years 1953, 1963, 1976 to current year.

## PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to September 1992.

WATER TEMPERATURES: June 1978 to September 1992.

**INSTRUMENTATION.**--Water-quality monitor June 1978 to September 1992.

## EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 354 microsiemens June 25, 1985; minimum, 27 microsiemens June 7, 1982.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 9, 1980, Aug. 17, 18, 1987; minimum, 0.0°C on many days during the winter period.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

[illegible]

## PAWCATUCK RIVER BASIN

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## 01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PHENOLS TOTAL (UG/L) (32730)	SEDI- MENT, DIS- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 26...	26.0	20.9	<.01	<.2	.24	<1	3	.05	5.8	<16	7.0	2.4	78
MAR 06...	55.2	45.9	<.01	<.2	.25	<1	5	.05	8.8	<16	5.0	6.9	77
JUN 05...	54.8	46.8	<.01	.3	.33	<1	5	.07	8.5	--	4.0	4.6	76
AUG 01...	11.6	8.9	<.01	.3	.36	<1	1	.05	5.3	--	2.0	.71	38
01...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)
NOV 26...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 05...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.2	<3	<.2	<.2	<.2	<.2	<.2	<5	<50	<.2	<.5	E.3	<.5

METH-  
OXY-  
CHLOR,  
TOT. IN  
BOTTOM  
MATL.  
(UG/KG)  
(39481)

Date  
NOV  
26...  
MAR  
06...  
JUN  
05...  
AUG  
01...  
01...  
2.5

Value qualifier codes used in this report:  
k -- Counts outside acceptable range  
n -- Below the NDV

Null value qualifier codes used in this report:  
e -- Required equipment not functional/avail

## MYSTIC RIVER BASIN

## 01118668 WHITFORD BROOK BELOW WILLIAMS BROOK NEAR OLD MYSTIC, CT

**LOCATION.**--Lat 41°24'30", long 71°57'49", New London County, Hydrologic Unit 01090005, on right bank approximately 400 ft downstream from road intersection of Gallop Hill Road and Shewville Road, and 1.2 mi north of Old Mystic.

**DRAINAGE AREA.**--12.0 mi<sup>2</sup>.

**PERIOD of RECORD.**--August 1999 to September 2002 (discontinued).

**GAGE.**--Water-stage recorder. Datum of gage is 34 ft above sea level, from topographic map. Satellite telemetry at station.

**REMARKS.**--Records good except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 119 ft<sup>3</sup>/s, May 14, 19, gage height, 2.38 ft; minimum discharge, 0.05 ft<sup>3</sup>/s, on several days, gage height, 0.61 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	1.7	6.5	e4.0	13	16	54	39	30	3.4	0.35	0.83
2	17	2.1	6.2	e3.6	15	15	67	39	26	2.9	0.32	3.3
3	9.4	2.3	5.5	e3.4	13	33	51	53	17	2.7	0.50	5.7
4	6.4	3.4	5.1	e3.2	13	48	45	45	14	2.2	0.47	9.1
5	4.8	3.3	4.8	e3.0	12	34	39	35	15	1.8	0.35	9.7
6	3.9	3.7	4.7	4.5	11	27	34	29	20	1.5	0.28	3.8
7	3.4	4.3	4.8	11	12	24	29	26	60	1.3	0.16	2.3
8	2.7	4.2	4.6	11	12	22	27	25	70	1.2	0.09	1.6
9	2.1	4.4	7.2	9.2	11	20	26	23	42	1.1	0.07	1.3
10	2.0	4.4	8.6	9.2	11	29	38	23	28	1.1	0.05	1.1
11	1.8	5.4	7.7	9.5	16	35	42	21	23	0.96	0.05	0.88
12	1.7	5.4	6.5	12	17	27	35	19	20	0.82	0.05	0.70
13	1.6	7.5	5.9	16	15	25	30	32	17	0.77	0.06	0.56
14	2.1	7.4	6.0	29	13	26	27	95	17	0.70	0.06	0.46
15	1.9	6.4	7.7	24	13	25	26	83	22	0.63	0.06	0.48
16	2.2	3.5	7.1	22	13	23	28	55	22	0.59	0.06	5.6
17	3.7	3.4	6.6	18	13	21	27	42	20	0.52	0.07	7.5
18	4.1	5.2	11	17	15	20	23	62	17	0.49	0.07	4.2
19	3.0	4.3	14	15	14	25	22	101	15	0.55	0.07	2.8
20	2.7	4.5	11	15	13	29	21	65	14	0.84	0.09	2.1
21	2.9	4.3	9.2	e15	17	52	19	49	12	0.77	0.09	1.7
22	2.3	4.1	8.1	e16	19	49	18	40	9.5	0.64	0.09	1.5
23	1.8	3.9	7.5	16	15	36	22	34	8.3	0.61	0.10	6.9
24	1.9	3.9	13	19	14	30	20	30	7.1	0.71	0.11	9.2
25	2.3	4.4	19	19	13	27	21	25	5.8	0.56	0.12	10
26	2.2	7.3	13	17	13	26	36	21	5.8	0.44	0.12	5.4
27	1.8	7.7	10	16	15	45	33	20	5.6	0.38	0.13	14
28	2.2	6.9	8.3	15	18	55	32	19	5.2	0.39	0.14	20
29	1.8	6.3	e6.5	14	---	42	45	22	4.7	0.73	0.41	13
30	1.6	6.4	e5.5	13	---	34	39	21	3.9	0.67	1.5	8.6
31	1.4	---	e4.6	13	---	33	---	20	---	0.49	1.4	---
TOTAL	111.7	142.0	246.2	412.6	389	953	976	1213	576.9	32.46	7.49	154.31
MEAN	3.60	4.73	7.94	13.3	13.9	30.7	32.5	39.1	19.2	1.05	0.24	5.14
MAX	17	7.7	19	29	19	55	67	101	70	3.4	1.5	20
MIN	1.4	1.7	4.6	3.0	11	15	18	19	3.9	0.38	0.05	0.46

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	MEAN	7.39	12.2	18.1	20.6	29.1	56.6	45.1	28.5	34.9	4.75	5.12	5.61
MAX	15.1	16.9	24.2	26.0	44.3	95.2	53.9	39.1	51.9	7.61	8.28	8.41	
(WY)	2000	2000	2001	2000	2001	2001	2001	2001	2001	2001	2000	2000	
MIN	3.49	4.73	7.94	13.3	13.9	30.7	32.5	18.3	19.2	1.05	0.24	2.36	
(WY)	2001	2002	2002	2002	2002	2002	2002	2001	2002	2002	2002	2001	

e Estimated.

MYSTIC RIVER BASIN

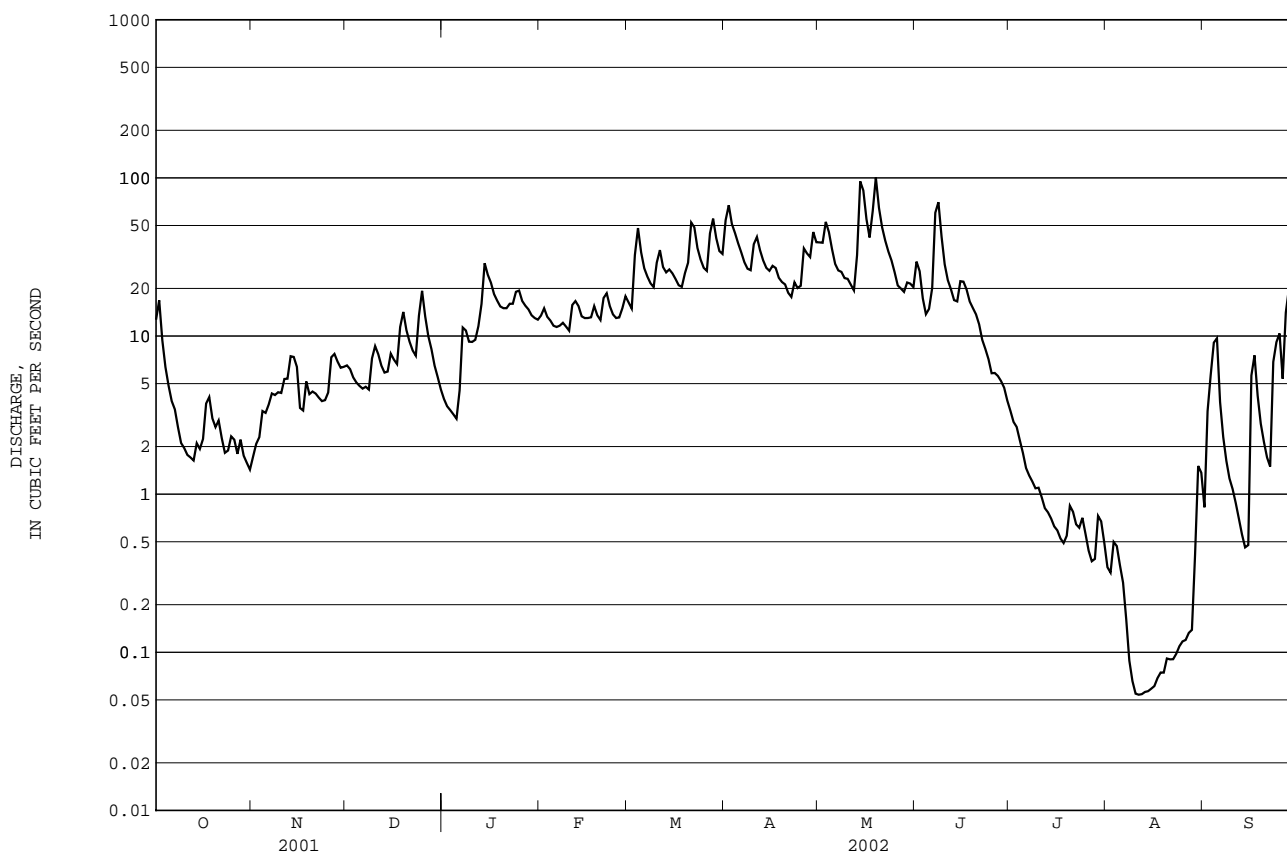
51

01118668 WHITFORD BROOK BELOW WILLIAMS BROOK NEAR OLD MYSTIC, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	9648.26		5214.66			
ANNUAL MEAN	26.4		14.3			
HIGHEST ANNUAL MEAN					22.2	
LOWEST ANNUAL MEAN					14.3	2001
HIGHEST DAILY MEAN	487	Jun 18	101	May 19	487	Jun 18 2001
LOWEST DAILY MEAN	0.50	Sep 19	0.05	Aug 10	0.01	Sep 1 1999
ANNUAL SEVEN-DAY MINIMUM	0.68	Sep 14	0.06	Aug 10	0.01	Aug 31 1999
MAXIMUM PEAK FLOW			a119	May 14	785	Jun 18 2001
MAXIMUM PEAK STAGE			2.38	May 14	3.88	Jun 18 2001
INSTANTANEOUS LOW FLOW			b0.05	Aug 9	0.01	Sep 2 1999
10 PERCENT EXCEEDS	63		34		47	
50 PERCENT EXCEEDS	12		9.2		14	
90 PERCENT EXCEEDS	1.9		0.51		1.9	

a Also occurred May 19.

b Also occurred Aug. 10-15.



## POQUONOCK RIVER BASIN

## 01119040 POQUONOCK RIVER NEAR GROTON, CT

**LOCATION.**--Lat 41°19'00", long 72°03'43", New London County, Hydrologic Unit 01100003, at pier on east side of Avery Point, University of Connecticut, 2 mi south of Groton, at mouth of Poquonock River in Long Island Sound.

**PERIOD OF RECORD.**--January 1973 to current year.

**GAGE.**--Water-stage recorder. Datum of staff gage is 10.00 ft below sea level. Telephone telemetry at station. Prior to Apr. 30, 1982, at datum 7.98 ft higher; prior to May 4, 1986, at datum 7.20 ft higher.

**REMARKS.**--Stage data in feet at 5-minute intervals available upon request.

**EXTREMES FOR PERIOD OF RECORD.**--Maximum tidal elevation, 6.63 ft, Feb. 6, 1978; minimum, -5.02 ft, Feb. 2, 1976.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum tidal elevation, 9.7 ft, Sept. 21, 1938 at site 2.7 mi upstream on Thames River at New London Pier and at same datum, gage operated by National Ocean Survey.

**EXTREMES FOR CURRENT YEAR.**--Maximum tidal elevation recorded, 3.93 ft, Apr. 25; minimum, -2.03 ft, Feb. 28.

## GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	3.59	0.78	2.68	-0.59	2.88	-0.73	2.67	-1.48	3.32	-0.24	2.06	-1.72
2	3.17	0.27	2.87	-0.45	2.67	-1.06	2.01	-1.59	2.43	-1.60	3.03	-1.64
3	2.82	0.04	2.75	-0.52	2.72	-0.82	2.38	-1.07	2.42	-0.49	3.04	-0.51
4	2.86	-0.06	2.91	-0.23	2.39	-0.89	2.27	-0.79	3.01	0.06	2.45	-1.04
5	---	---	2.59	-0.52	2.52	-0.65	2.32	-0.81	3.06	0.12	1.50	-1.26
6	---	---	2.67	-0.26	2.51	-0.81	2.26	-0.29	---	---	1.52	-0.97
7	2.43	-0.65	2.06	-0.71	2.12	-0.72	3.21	-0.40	---	---	1.35	-0.74
8	1.81	-0.79	2.60	0.13	2.10	-0.45	2.64	-0.45	---	---	1.83	-0.48
9	---	---	2.83	-0.64	3.13	-0.41	2.32	-0.89	---	---	1.71	-0.67
10	---	---	2.34	-0.40	2.82	-0.45	2.34	-1.00	---	---	2.28	-1.63
11	---	---	2.45	-0.69	2.78	-0.75	2.94	-0.55	---	---	1.12	-1.99
12	---	---	2.61	-1.05	2.99	-0.61	2.11	-0.96	---	---	1.71	-1.01
13	---	---	2.74	-1.23	3.44	-0.34	3.28	-1.35	---	---	2.23	-0.56
14	---	---	2.71	-1.30	3.16	-0.60	1.20	-2.51	---	---	2.19	-0.61
15	---	---	3.04	-0.93	2.80	-0.89	2.80	-0.47	---	---	2.35	-0.62
16	---	---	3.16	-0.86	2.69	-0.59	1.93	-0.82	2.51	-0.04	2.30	-0.50
17	3.47	-1.18	3.05	-0.54	3.07	0.03	2.18	-0.44	2.55	0.28	2.10	-0.28
18	2.35	-1.56	2.63	-0.72	3.32	-0.46	---	---	2.62	-0.12	2.62	-0.42
19	2.74	-0.76	2.30	-0.32	2.53	0.16	---	---	2.77	0.56	2.65	-0.14
20	2.94	-0.55	2.18	-0.45	2.64	-0.27	---	---	2.54	0.21	2.52	0.14
21	2.60	-0.30	2.29	0.08	1.76	-0.19	---	---	2.83	0.37	2.45	-0.27
22	2.25	-0.26	2.05	-0.09	1.90	0.10	---	---	2.45	0.02	2.01	-1.42
23	2.75	0.55	1.97	0.20	2.05	0.38	---	---	2.10	-0.46	1.25	-1.03
24	2.54	0.66	2.11	0.25	3.05	0.21	---	---	2.59	-0.46	1.54	-0.89
25	2.73	0.58	2.24	0.26	2.28	0.10	---	---	2.86	-0.75	2.11	-0.73
26	2.37	-0.07	2.35	0.12	2.67	0.22	---	---	3.09	-0.63	3.12	-0.80
27	2.13	-0.07	2.39	-0.05	3.04	-0.37	---	---	3.62	-0.66	3.12	-0.80
28	2.25	-0.10	2.62	-0.37	2.48	-0.54	---	---	1.93	-2.03	2.87	-1.17
29	2.35	-0.28	3.24	-0.07	2.41	-0.80	---	---	---	---	3.10	-1.34
30	2.30	-0.36	2.95	-0.59	2.76	-1.20	3.44	-0.86	---	---	2.91	-0.81
31	2.62	-0.45	---	---	2.44	-1.63	3.34	-0.51	---	---	3.10	-1.12
MONTH	---	---	3.24	-1.30	3.44	-1.63	---	---	---	---	3.12	-1.99

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	2.98	-0.73	2.87	-0.54	2.46	-0.05	1.87	-0.29	2.67	0.50	2.52	0.20
2	2.33	-1.14	2.81	0.06	2.26	0.22	2.06	-0.11	2.67	0.51	3.10	0.38
3	2.35	-0.43	2.87	-0.25	2.17	0.08	2.34	0.11	2.53	0.04	3.03	0.17
4	1.70	-0.68	1.47	-0.84	2.19	0.03	2.41	0.09	2.54	-0.06	3.15	-0.04
5	1.56	-0.32	2.02	-0.11	2.35	0.04	2.26	-0.17	2.79	-0.11	3.11	-0.39
6	1.74	-0.28	1.87	-0.11	2.28	-0.01	2.50	-0.28	2.96	-0.21	3.05	-0.74
7	1.72	-0.31	2.21	-0.15	3.04	-0.17	2.47	-0.26	3.04	-0.46	2.94	-0.86
8	1.93	-0.61	2.31	-0.14	2.60	0.25	2.59	-0.54	3.09	-0.70	2.91	-0.98
9	1.94	-0.42	2.48	-0.41	2.64	-0.38	2.77	-0.56	2.98	-0.73	3.01	-0.94
10	1.76	-0.95	2.33	-0.27	2.79	-0.59	2.91	-0.78	2.86	-0.85	3.52	-0.26
11	1.94	-0.81	1.96	-1.07	3.00	-0.66	2.85	-0.65	2.79	-0.85	3.67	-1.10
12	2.06	-0.76	2.59	-1.00	3.26	-0.45	2.89	-0.81	2.81	-0.64	3.18	-0.38
13	2.21	-0.93	3.64	-0.74	3.23	-0.14	2.73	-0.65	2.83	-0.62	3.07	-0.32
14	2.37	-0.79	2.94	-0.19	3.57	-0.25	2.70	-0.53	2.74	-0.43	2.66	0.03
15	2.45	-0.46	2.34	-1.19	3.57	0.39	2.84	-0.33	2.62	-0.44	2.52	-0.19
16	2.35	-0.60	2.27	-0.80	3.31	0.30	3.07	-0.13	2.56	-0.36	2.54	-0.11
17	2.35	-0.49	2.24	-0.72	2.83	-0.17	3.16	0.08	2.69	-0.17	2.88	-0.09
18	2.33	-0.23	2.50	-0.11	2.58	-0.33	3.03	-0.08	2.90	-0.15	2.63	0.14
19	2.48	-0.15	2.40	-0.38	2.54	-0.71	3.25	-0.01	2.92	-0.11	2.59	0.02
20	2.39	-0.15	2.32	-0.41	2.50	-0.89	3.08	-0.01	2.82	-0.13	2.52	-0.12
21	2.26	-0.14	2.16	-0.67	2.58	-1.01	2.91	-0.31	2.70	-0.27	2.60	0.02
22	3.07	0.14	2.51	-0.87	2.61	-1.17	2.81	-0.55	2.59	-0.37	2.78	-0.05
23	2.75	-0.27	2.87	-0.88	2.91	-1.15	2.59	-0.66	2.64	-0.29	2.76	0.04
24	2.94	-0.44	3.27	-0.86	2.78	-0.94	2.69	-0.79	2.87	0.00	2.85	0.03
25	3.93	-0.71	3.31	-1.03	2.96	-0.99	2.83	-0.39	2.78	0.18	2.62	0.11
26	2.84	-1.47	3.23	-1.08	2.76	-0.66	2.91	-0.30	2.52	0.04	2.80	0.45
27	2.74	-1.53	2.89	-1.13	2.45	-0.48	2.59	-0.06	2.40	0.06	2.94	0.79
28	3.53	-1.46	2.79	-1.11	2.31	-0.52	2.62	-0.02	2.51	0.30	2.73	0.26
29	3.17	-0.61	2.69	-0.87	2.34	-0.35	2.72	0.35	3.06	0.42	2.50	0.31
30	2.93	-0.62	2.68	-0.61	2.08	-0.28	2.80	0.61	2.36	0.18	2.23	0.06
31	---	---	2.58	-0.26	---	---	2.63	0.41	2.82	0.42	---	---
MONTH	3.93	-1.53	3.64	-1.19	3.57	-1.17	3.25	-0.81	3.09	-0.85	3.67	-1.10

## Science Challenge

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The Nile River in Africa at 4,160 miles in length.

## THAMES RIVER BASIN

## 01119375 WILLIMANTIC RIVER AT MERROW, CT

**LOCATION.**--Lat 41°50'07", long 72°18'38", Tolland County, Hydrologic Unit 01100002, at bridge on State Rt. 195, 0.7 mi upstream from Merrow, 0.8 mi downstream from Newcomb Brook, and 1.5 mi upstream from Winding Brook.

**DRAINAGE AREA.**--94.0 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water year 1974 to current year.

**REMARKS.**--Discharges shown for this location are computed by determining the discharge for station 01119384, 2.0 mi downstream, and adjusting its discharge by multiplying by a factor of 0.98, which is the ratio of the two stations' drainage areas.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 20...	1415	34	193	7.1	7.0	8.0	2.5	12.3	106	11k	22	31	7.97	
JAN 10...	1340	81	181	6.6	9.5	.5	1.3	14.8	106	37	6k	29	7.30	
MAR 04...	1440	163	110	6.2	2.5	5.0	1.8	13.1	104	124k	220	19	4.61	
MAY 06...	1245	123	98	6.8	26.0	15.5	2.1	10.8	106	10k	9k	17	4.14	
JUN 25...	1400	76	123	6.7	26.0	22.5	1.9	9.3	108	110	28	21	5.23	
JUL 30...	1330	33	146	7.4	32.0	26.5	1.5	7.6	97	56	76	26	6.60	
AUG 22...	1130	17	175	7.0	27.0	21.0	1.6	9.8	111	120	47	29	7.49	
SEP 06...	0845	26	196	7.1	20.0	16.0	1.4	9.1	94	84	66k	32	8.00	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 20...	2.61	19.9	4.51	0	20	16	23.8	28.6	.2	6.55	120	120	<.008	
JAN 10...	2.59	18.6	3.34	0	14	11	20.3	26.9	.1	9.78	108	106	<.008	
MAR 04...	1.89	10.2	1.59	0	14	12	10.2	17.5	<.1	7.65	70	80	<.008	
MAY 06...	1.63	9.63	1.22	0	8	7	9.0	15.8	<.1	5.99	62	69	<.008	
JUN 25...	1.93	13.3	1.49	0	11	9	11.5	18.5	E.1	7.70	77	74	E.004	
JUL 30...	2.26	14.8	2.56	0	17	14	12.5	22.5	E.1	6.77	94	89	<.008	
AUG 22...	2.54	17.8	3.76	0	18	15	16.4	25.3	.1	6.16	94	100	<.008	
SEP 06...	2.81	20.3	3.89	0	22	18	21.9	27.2	.1	6.96	111	106	<.008	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
NOV 20...	1.01	E.02	--	.33	.22	1.3	.017	.005	<.02	7	E.03	13	<.06	
JAN 10...	.71	.17	.34	.51	.45	1.2	.017	.010	<.02	13	E.03	10	<.06	
MAR 04...	.37	E.03	--	.39	.26	.76	.037	.008	<.02	39	<.05	9	<.06	
MAY 06...	.22	<.04	--	.31	.21	.53	.028	.010	<.02	33	.06	8	<.06	
JUN 25...	.46	<.04	--	.35	.24	.81	.033	.020	E.01	35	.07	9	<.06	
JUL 30...	.30	<.04	--	.38	.32	.68	.032	.021	<.02	21	.07	8	<.06	
AUG 22...	.47	<.04	--	.32	.31	.79	.040	.027	.02	16	.09	10	<.06	
SEP 06...	.72	<.04	--	.37	.31	1.1	.029	.020	E.01	8	.05	12	<.06	



## 01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 20...	<.04	<.8	.09	1.8	113	.22	9.4	.3	1.52	<1	5	<.02	3.7
JAN 10...	<.04	<.8	.11	1.2	155	.17	21.0	.3	1.28	<1	4	<.02	3.2
MAR 04...	<.04	<.8	.20	1.4	147	.19	40.7	<.2	1.07	<1	5	E.01	5.6
MAY 06...	<.04	<.8	.12	1.3	136	.17	19.1	<.2	.99	<1	3	.02	4.9
JUN 25...	<.04	<.8	.12	1.7	357	.37	15.1	E.1	1.20	<1	2	.02	4.9
JUL 30...	<.04	<.8	.13	1.4	328	.30	14.5	.3	1.25	<1	2	E.01	4.5
AUG 22...	<.04	1.2	.14	1.4	240	.25	15.6	.3	1.65	<1	3	E.01	4.4
SEP 06...	<.04	<.8	.14	1.4	139	.16	17.9	.2	1.76	<1	3	<.02	3.7

Value qualifier codes used in this report:  
 k -- Counts outside acceptable range

## THAMES RIVER BASIN

## 01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT

**LOCATION.**--Lat 41°45'02", long 72°15'58", Tolland County, Hydrologic Unit 01100002, on left bank 700 ft upstream from bridge on State Rt. 31, 1 mi downstream from Mill Brook, 2.4 mi southeast of South Coventry, 2.8 mi upstream from Hop River and 6.3 mi upstream from mouth.

**DRAINAGE AREA.**--121 mi<sup>2</sup>.

PERIOD of RECORD.--Discharge: September 1931 to current year.

Water-quality records: Water years 1956-57, 1963-64, 1975-80.

REVISED RECORDS.--WSP 781" 1034 (m). WSP 851: 1935-36. WSP 1201: 1932 (M,m), 1933-34, 1937, 1939-42. WDR 79-1: 1978 (m). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 239.05 ft above sea level (levels by Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records good, except those for periods of estimated record, which are fair. Natural flow of stream regulated by Staffordville Reservoir. High streamflow regulated by six flood-detention reservoirs in Middle River Basin, combined usable flood capacity, 305,400,000 ft<sup>3</sup>.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
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No peak greater than base discharge.

Minimum discharge, 11 ft<sup>3</sup>/s, Aug. 20, gage height, 2.38 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	19	38	e42	89	70	267	272	441	66	30	29
2	58	20	35	e43	e94	64	265	245	294	60	36	37
3	56	25	35	e46	87	236	221	343	201	55	92	41
4	51	27	35	51	78	262	266	305	160	50	62	90
5	44	24	35	52	63	164	230	238	160	59	44	46
6	35	26	33	51	61	126	193	195	366	49	35	32
7	26	27	30	51	e59	115	169	170	860	44	28	26
8	21	22	26	e48	e60	107	158	156	716	44	24	23
9	20	24	29	e47	e61	95	154	144	454	51	20	22
10	20	23	28	e46	e64	125	154	154	333	70	19	20
11	19	23	27	e50	97	128	148	140	261	45	18	21
12	20	20	28	e55	100	106	135	132	270	37	16	15
13	20	21	30	e60	88	98	131	373	303	33	16	15
14	20	21	34	e70	63	e118	134	978	254	31	15	17
15	28	21	51	e78	63	e116	185	624	289	30	15	22
16	36	22	55	e70	62	e120	207	404	276	29	14	38
17	28	20	43	e60	64	e129	168	324	342	27	14	33
18	25	20	106	e55	73	e120	144	555	301	25	13	29
19	21	20	141	e52	69	e122	128	642	239	87	12	26
20	21	21	100	e56	67	e150	134	447	213	120	37	24
21	20	20	82	e60	99	e170	126	365	172	77	40	23
22	20	21	69	e65	126	e185	119	292	145	56	25	21
23	22	21	59	e70	105	e190	138	261	130	75	20	40
24	31	29	95	e80	87	e150	132	240	115	134	19	37
25	22	25	110	92	76	e200	126	205	99	77	23	33
26	18	39	88	84	71	e340	215	181	111	55	20	32
27	18	44	68	70	72	e480	184	173	105	43	19	87
28	17	41	55	65	78	e377	214	170	91	41	17	108
29	17	38	53	63	---	291	390	178	84	45	27	89
30	18	37	e48	72	---	239	327	168	75	38	56	68
31	17	---	e44	85	---	204	---	177	---	32	40	---
TOTAL	854	761	1710	1889	2176	5397	5562	9251	7860	1685	866	1144
MEAN	27.5	25.4	55.2	60.9	77.7	174	185	298	262	54.4	27.9	38.1
MAX	65	44	141	92	126	480	390	978	860	134	92	108
MIN	17	19	26	42	59	64	119	132	75	25	12	15

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

MEAN	114	183	237	264	265	410	397	260	181	91.0	88.0	95.9
MAX	606	631	761	929	619	1050	897	596	869	421	972	1176
(WY)	1956	1956	1997	1979	1970	1936	1940	1989	1982	1938	1955	1938
MIN	15.5	25.4	55.2	35.6	77.7	174	145	108	35.9	22.2	12.4	14.5
(WY)	1958	2002	2002	1981	2002	2002	1985	1957	1999	1957	1999	1957

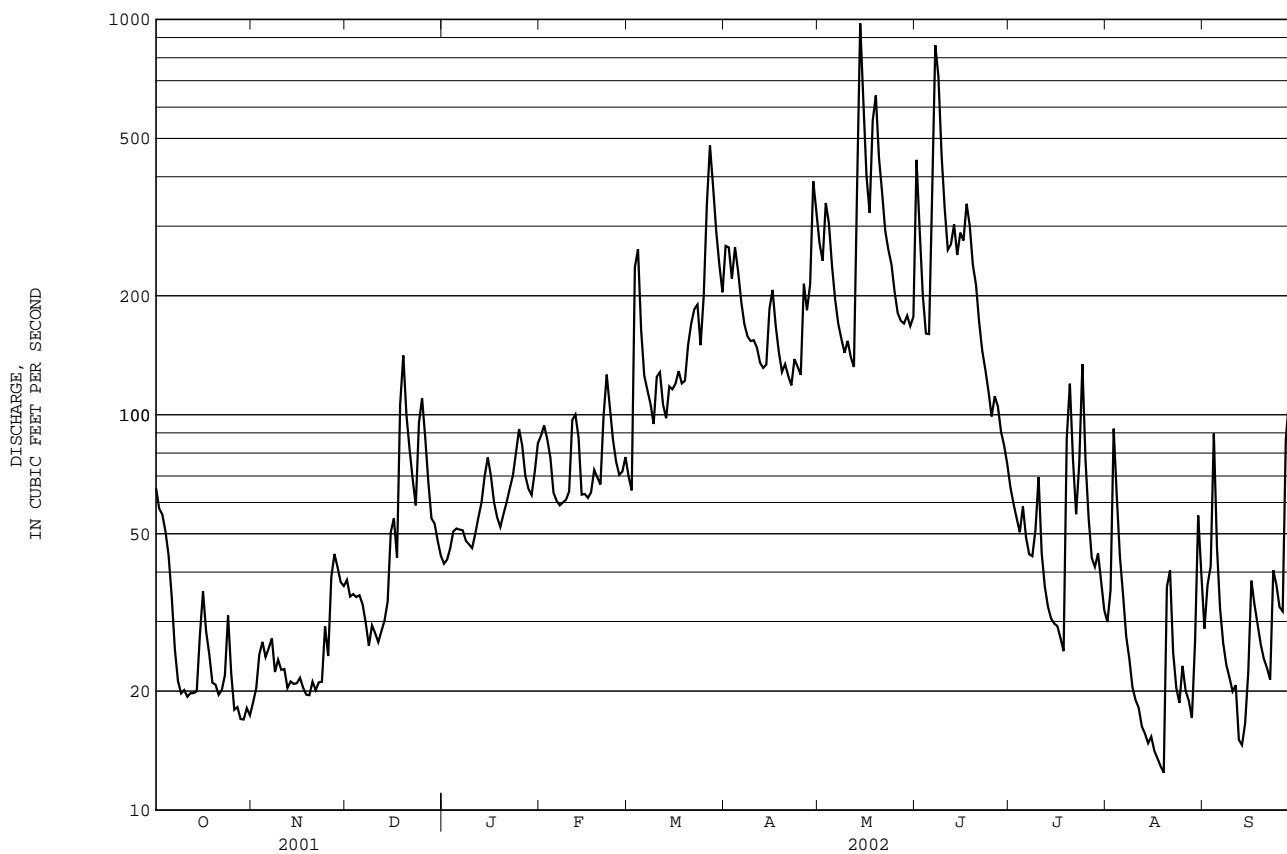
e Estimated.

## 01119500 WILLIMANTIC RIVER NEAR COVENTRY, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1932 - 2002	
ANNUAL TOTAL	54362			39155			215	
ANNUAL MEAN	149			107			370	1938
HIGHEST ANNUAL MEAN							97.9	1965
LOWEST ANNUAL MEAN							12900	Sep 21 1938
HIGHEST DAILY MEAN	2200	Mar 22		978	May 14		2.5	Sep 18 1949
LOWEST DAILY MEAN	15	Sep 9		12	Aug 19		7.6	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	16	Sep 7		14	Aug 13		a24200	Aug 19 1955
MAXIMUM PEAK FLOW				1070	May 14		b18.66	Aug 19 1955
MAXIMUM PEAK STAGE				6.27	May 14		2.0	Aug 21 1949
INSTANTANEOUS LOW FLOW				11	Aug 20			
10 PERCENT EXCEEDS	380			261			449	
50 PERCENT EXCEEDS	81			62			146	
90 PERCENT EXCEEDS	20			20			34	

a From rating curve extended above 3,600 ft<sup>3</sup>/s on basis of computation of flow over dam at gage height 12.2 ft, and contracted opening measurement of peak flow.

b From floodmarks.



## THAMES RIVER BASIN

## 01120800 NATCHAUG RIVER AT CHAPLIN, CT

LOCATION.--Lat 41°48'03", long 72°07'07", Windham County, Hydrologic Unit 01100002, on left bank at upstream side of bridge on Bear Hill Rd., northeast of Chaplin.

DRAINAGE AREA.--67.9 mi<sup>2</sup>

PERIOD of RECORD.--May 1962 to September 1964, March 1995 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 20...	1050	12	96	7.1	5.5	8.5	.75	12.2	107	2k	25	22	5.53	
JAN 10...	1040	4.0	97	6.9	9.5	.5	1.1	15.2	108	39	30	23	5.66	
MAR 04...	1020	188	77	6.7	1.0	4.0	1.7	12.4	96	120	940	16	3.80	
MAY 06...	0945	108	75	6.8	22.5	13.0	.96	10.6	101	8k	7k	16	3.86	
JUN 25...	1045	38	79	7.0	25.5	20.5	1.3	9.2	103	52	35	15	3.73	
JUL 30...	0915	12	106	7.4	28.5	23.5	.98	8.0	98	84	110	23	5.83	
AUG 22...	0815	11	109	7.2	18.5	19.0	19	9.0	96	296	175	25	6.27	
SEP 06...	1300	9.7	99	7.0	26.0	19.5	1.6	9.1	99	37	110	24	6.05	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 20...	2.02	7.34	1.41	0	16	14	5.4	14.6	<.1	5.87	66	58	<.008	
JAN 10...	2.20	7.78	1.31	0	22	18	7.3	14.0	<.1	10.0	70	74	<.008	
MAR 04...	1.58	6.02	1.24	0	6	5	6.7	10.7	<.1	7.15	54	56	<.008	
MAY 06...	1.52	6.73	.79	0	9	7	6.3	11.4	<.1	4.78	40	53	<.008	
JUN 25...	1.36	6.02	.73	0	12	10	4.8	10.9	<.1	8.42	59	53	<.008	
JUL 30...	2.12	8.54	1.43	0	20	16	5.6	13.9	<.1	7.90	67	67	<.008	
AUG 22...	2.22	8.44	1.95	0	21	17	6.0	14.4	E.1n	5.41	57	66	<.008	
SEP 06...	2.18	7.82	1.43	0	19	15	6.1	12.5	<.1	7.55	60	60	<.008	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV 20...	.12	E.02	.19	.19	.30	.007	E.004	<.02	7	<.05	6	<.06	<.04	
JAN 10...	.24	<.04	.26	.21	.50	.009	.005	<.02	21	<.05	6	<.06	<.04	
MAR 04...	.18	E.02	.31	.25	.49	.027	.009	<.02	58	.10	6	<.06	<.04	
MAY 06...	.06	<.04	.35	.21	.41	.012	.005	<.02	31	.05	6	<.06	<.04	
JUN 25...	.18	<.04	.30	.28	.48	.016	.009	<.02	26	E.04	5	<.06	<.04	
JUL 30...	.18	<.04	.25	.21	.43	.013	.007	<.02	9	<.05	7	<.06	<.04	
AUG 22...	.33	<.04	.20	.19	.52	.010	.007	<.02	7	.07	7	<.06	<.04	
SEP 06...	.10	<.04	.26	.22	.36	.012	.006	<.02	11	<.05	5	<.06	<.04	

## 01120800 NATCHAUG RIVER AT CHAPLIN, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV												
20...	<.8	.03	.6	118	E.06	4.2	<.2	.24	<1	2	E.01	3.7
JAN												
10...	<.8	.04	.5	164	.09	5.7	<.2	.24	<1	2	.03	4.4
MAR												
04...	E.5	.08	.7	131	.19	17.8	.3	.64	<1	4	.06	6.3
MAY												
06...	<.8	.05	.5	128	E.07	7.9	<.2	.36	<1	1	.04	4.9
JUN												
25...	<.8	.06	.5	235	.25	9.2	E.1	.34	<1	1	.04	5.0
JUL												
30...	<.8	.06	.4	114	E.04	16.5	E.2	.33	<1	<1	.02	3.5
AUG												
22...	.9	.06	.4	61	<.08	13.8	.2	.41	<1	1	E.01	3.7
SEP												
06...	<.8	.06	.4	90	E.04	9.8	E.2	.31	<1	3	.02	3.7

Value qualifier codes used in this report:  
 k -- Counts outside acceptable range  
 n -- Below the NDV

## THAMES RIVER BASIN

## 01121000 MOUNT HOPE RIVER NEAR WARRENVILLE, CT

**LOCATION.**--Lat 41°50'37", long 72°10'10", Windham County, Hydrologic Unit 01100002, on left bank 250 ft downstream from Knowlton Brook, 700 ft upstream from bridge on State Rt. 89, 1.8 mi south of Warrenville, and 3.2 mi southwest of Ashford.

**DRAINAGE AREA.**--28.6 mi<sup>2</sup>.

**PERIOD of RECORD.**--July 1940 to current year.

**REVISED RECORDS.**--WSP 1331: 1941, 1951-53(M). WSP 1721: Drainage area. WDR CT-75-1: 1974 (P).

**GAGE.**--Water-stage recorder. Datum of gage is 335.68 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Chemical analyses available for water year 1959 (WSP 1641). Occasional regulation from ponds upstream.

**EXTREMES OUTSIDE PERIOD of RECORD.**--Flood of September 1938 reached a stage of about 14.5 ft, from floodmarks.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 400 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 13	2315	*645	*5.21	No other peak greater than base discharge.			

Minimum discharge, 0.29 ft<sup>3</sup>/s, Aug. 20, gage height, 0.84 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	3.6	5.7	e7.0	22	15	100	56	88	11	2.4	2.8
2	9.8	3.5	5.1	7.5	e22	14	73	58	45	9.8	10	7.2
3	8.1	5.7	4.0	7.4	e15	103	65	76	32	8.6	17	10
4	7.2	7.0	3.7	7.1	e12	69	74	52	25	7.5	7.9	12
5	5.9	5.9	3.0	7.3	e10	41	56	44	29	9.1	5.1	12
6	12	7.4	2.7	8.3	e11	33	50	39	103	7.1	3.7	12
7	17	6.0	2.8	17	e10	30	44	36	272	6.8	2.6	9.0
8	16	4.5	2.6	15	e10	28	42	33	117	6.2	2.2	4.0
9	14	4.3	3.8	e10	e9.0	26	40	30	69	8.5	1.5	2.1
10	14	4.9	4.1	e9.6	e10	49	42	37	52	15	1.2	5.1
11	14	4.4	4.4	e13	31	39	37	30	42	8.1	1.2	7.4
12	14	3.6	5.7	17	e24	31	34	33	57	5.9	1.0	5.2
13	13	3.0	8.2	22	e17	29	34	199	70	4.8	0.87	8.0
14	13	2.9	8.9	23	e14	28	35	409	56	4.2	0.86	3.9
15	16	2.7	15	21	e13	26	51	146	69	3.8	0.83	6.6
16	12	2.8	11	20	e12	31	44	87	63	3.5	0.74	10
17	6.7	2.6	9.0	17	e14	31	38	69	64	3.0	0.65	5.9
18	5.1	2.4	45	e15	20	29	33	199	45	2.6	0.54	3.7
19	4.3	2.4	40	e14	18	32	32	141	36	6.3	0.46	2.0
20	4.9	2.6	25	e13	16	39	34	90	31	9.0	5.5	1.1
21	4.1	2.8	20	e11	31	61	30	72	26	6.3	4.3	1.0
22	3.7	2.5	e14	e10	27	62	29	61	22	4.5	1.7	0.97
23	3.7	2.4	15	e11	20	43	40	55	21	9.3	1.3	8.3
24	4.6	2.4	30	e12	17	38	32	48	18	19	1.2	5.1
25	5.8	2.9	29	27	15	37	33	43	15	8.7	1.7	3.1
26	7.3	9.2	e17	20	14	41	64	38	25	5.4	1.3	3.0
27	14	7.9	e14	17	16	198	43	37	20	4.9	1.0	20
28	11	5.8	e10	16	17	101	67	35	18	4.6	0.88	19
29	5.0	5.1	e9.0	15	---	67	107	36	17	4.9	3.9	11
30	3.5	4.9	e9.0	19	---	64	68	32	13	3.9	8.0	6.2
31	3.2	---	e7.0	18	---	57	---	43	---	3.1	4.3	---
TOTAL	283.9	128.1	383.7	447.2	467.0	1492	1471	2364	1560	215.4	95.83	207.67
MEAN	9.16	4.27	12.4	14.4	16.7	48.1	49.0	76.3	52.0	6.95	3.09	6.92
MAX	17	9.2	45	27	31	198	107	409	272	19	17	20
MIN	3.2	2.4	2.6	7.0	9.0	14	29	30	13	2.6	0.46	0.97
CFSM	0.32	0.15	0.43	0.50	0.58	1.68	1.71	2.67	1.82	0.24	0.11	0.24
IN.	0.37	0.17	0.50	0.58	0.61	1.94	1.91	3.07	2.03	0.28	0.12	0.27

STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

MEAN	26.1	46.7	61.8	69.4	72.1	108	93.0	60.3	37.3	15.0	15.8	15.7
MAX	144	131	200	264	203	219	197	119	207	60.4	148	118
(WY)	1956	1956	1997	1979	1970	1972	1983	1984	1982	1972	1955	1954
MIN	3.44	4.27	12.4	12.0	16.2	47.4	29.7	19.0	4.99	1.35	0.79	1.05
(WY)	1958	2002	2002	1981	1980	1981	1985	1957	1957	1957	1957	1953

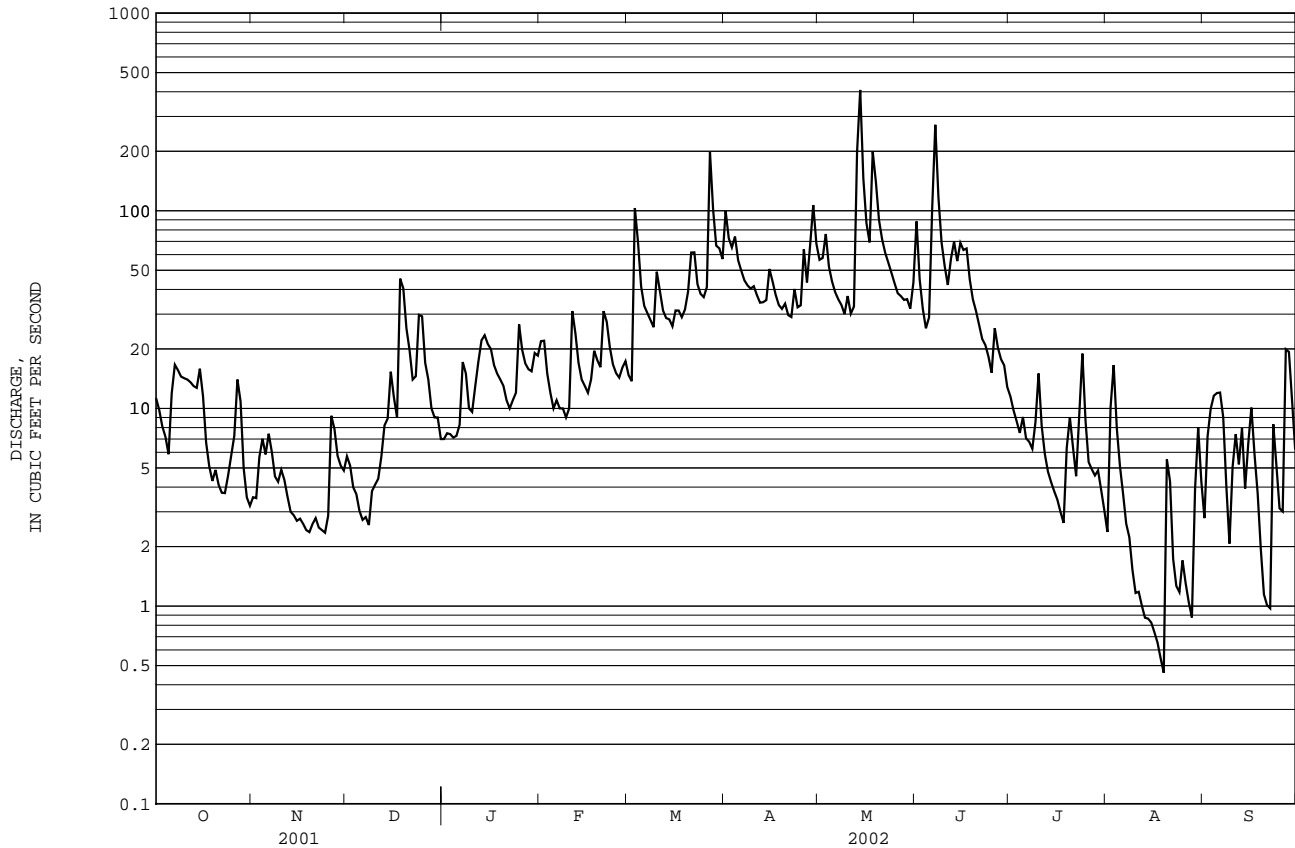
e Estimated.

## 01121000 MOUNT HOPE RIVER NEAR WARRENVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1941 - 2002	
ANNUAL TOTAL	14579.9			9115.80			51.7	
ANNUAL MEAN	39.9			25.0			75.0	1972
HIGHEST ANNUAL MEAN							25.0	2002
LOWEST ANNUAL MEAN								
HIGHEST DAILY MEAN	895	Mar	22	409	May	14	2640	Aug 19 1955
LOWEST DAILY MEAN	1.9	Aug	2	0.46	Aug	19	0.20	Aug 21 1957
ANNUAL SEVEN-DAY MINIMUM	2.4	Sep	7	0.71	Aug	13	0.40	Aug 8 1957
MAXIMUM PEAK FLOW				645	May	13	a5590	Aug 19 1955
MAXIMUM PEAK STAGE				5.21	May	13	b10.41	Aug 19 1955
INSTANTANEOUS LOW FLOW				0.29	Aug	20	0.15	Aug 25 1957
ANNUAL RUNOFF (CFSM)	1.40			0.87			1.81	
ANNUAL RUNOFF (INCHES)	18.96			11.86			24.54	
10 PERCENT EXCEEDS	101			59			113	
50 PERCENT EXCEEDS	19			13			31	
90 PERCENT EXCEEDS	3.1			2.7			4.1	

a From rating curve extended above 890 ft<sup>3</sup>/s on basis of contracted opening of peak flow.

b From floodmarks in gage well.



## THAMES RIVER BASIN

## 01122000 NATCHAUG RIVER AT WILLIMANTIC, CT

**LOCATION.**--Lat 41°43'11", long 72°11'46", Windham County, Hydrologic Unit 01100002, on left bank at upstream side of bridge on State Rt. 66, 1 mi northeast of Willimantic, 1.6 mi upstream from mouth, and 3.7 mi downstream from Mansfield Hollow Dam.

**DRAINAGE AREA.**--174 mi<sup>2</sup>.

**PERIOD of RECORD.**--Discharge: October 1930 to September 1989, October 1995 to current year.

Water-quality records: Water years 1954, 1958, 1968.

**REVISED RECORDS.**--WSP 1301: 1934-35(M), 1937(M). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 150.31 ft above sea level (levels by Corps of Engineers).

Oct. 6, 1930, to June 6, 1974, water-stage recorder on right bank 500 ft upstream at same datum. June 6, 1974 to Aug. 26,

1975, staff gage at present site and datum. Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--No estimated daily discharges. Records good. City of Willimantic diverts an average of about 1.8 Mgal/d for municipal supply from reservoir 2 mi upstream. Operation of water wheels at this location causes diurnal fluctuation at low flow. Flow regulated since March 1952 by Mansfield Hollow Lake.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 1,800 ft<sup>3</sup>/s, May 14, gage height, 6.44 ft; minimum discharge, 21 ft<sup>3</sup>/s, Sept. 13, gage height, 1.12 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	55	79	92	97	86	504	366	272	101	30	31
2	37	55	77	47	97	85	491	196	261	76	43	43
3	36	57	77	46	97	133	486	377	259	45	35	33
4	35	54	76	45	96	139	439	380	256	43	31	69
5	35	54	75	45	102	262	319	299	259	42	31	42
6	38	43	57	48	111	259	261	295	280	43	30	34
7	88	24	34	54	110	243	260	267	708	43	29	30
8	141	24	34	50	109	151	260	185	1050	44	29	28
9	124	25	39	50	108	150	259	184	717	46	29	28
10	81	26	36	50	108	161	259	179	399	46	29	30
11	62	26	36	52	118	155	238	132	321	45	29	31
12	67	26	37	51	111	154	154	165	275	45	29	25
13	74	26	38	59	110	155	155	346	164	45	29	23
14	67	26	40	63	109	173	157	1220	159	45	29	25
15	68	26	41	94	108	188	176	1700	357	48	28	41
16	64	26	39	89	108	187	227	811	786	46	29	48
17	63	26	40	89	110	185	243	475	440	38	29	33
18	62	25	58	114	92	186	255	508	360	30	28	49
19	62	25	121	136	72	185	252	727	195	42	28	66
20	62	26	285	134	71	193	186	891	194	38	41	66
21	62	25	227	132	82	195	134	580	192	33	30	66
22	62	25	75	130	86	218	137	413	191	32	28	65
23	62	25	73	124	86	260	138	435	188	48	29	81
24	63	26	83	95	86	258	143	363	140	81	29	65
25	61	27	78	95	86	256	186	254	102	132	30	65
26	60	29	76	94	86	262	262	190	104	114	29	82
27	60	27	85	94	89	503	257	190	103	49	29	109
28	59	27	134	94	86	924	276	190	103	49	28	98
29	59	45	132	94	---	570	460	210	102	51	44	92
30	59	79	130	95	---	315	631	253	102	46	37	90
31	57	---	127	95	---	407	---	268	---	30	32	---
TOTAL	1975	1010	2539	2550	2731	7598	8205	13049	9039	1616	960	1588
MEAN	63.7	33.7	81.9	82.3	97.5	245	274	421	301	52.1	31.0	52.9
MAX	141	79	285	136	118	924	631	1700	1050	132	44	109
MIN	35	24	34	45	71	85	134	132	102	30	28	23

STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002, BY WATER YEAR (WY)

MEAN	147	261	343	375	392	612	575	355	241	113	94.1	123
MAX	880	844	1082	1183	932	1681	1315	676	1298	887	836	1523
(WY)	1956	1956	1997	1979	1970	1936	1987	1989	1982	1938	1955	1938
MIN	19.3	31.0	70.0	61.6	88.9	245	194	119	35.3	11.8	10.3	11.2
(WY)	1931	1932	1932	1981	1980	2002	1985	1957	1957	1957	1957	1943

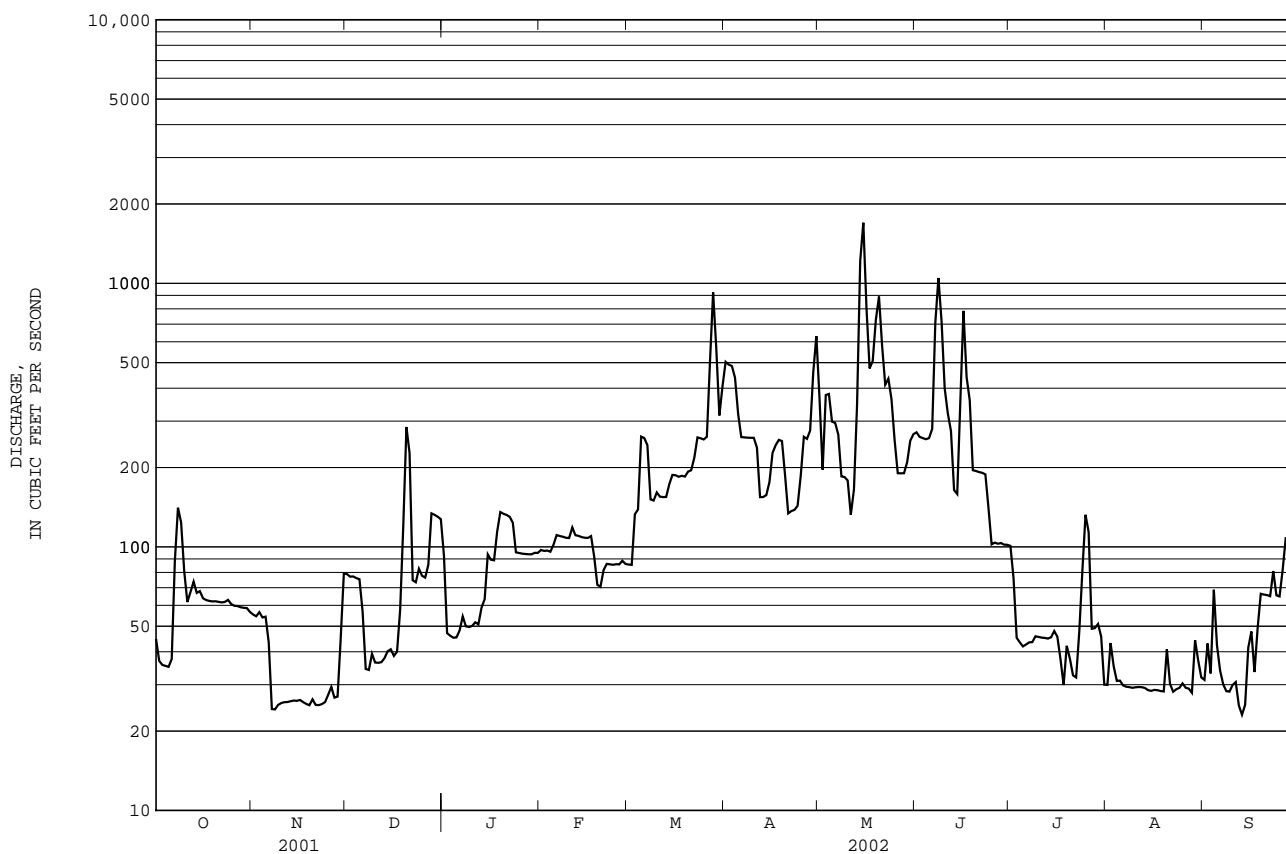


## 01122000 NATCHAUG RIVER AT WILLIMANTIC, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1931 - 2002	
ANNUAL TOTAL	86340			52860			302	
ANNUAL MEAN	237			145			550	1938
HIGHEST ANNUAL MEAN							142	1965
LOWEST ANNUAL MEAN							18200	Sep 21 1938
HIGHEST DAILY MEAN	2340	Mar 24		1700	May 15		2.3	Sep 11 1943
LOWEST DAILY MEAN	24	Nov 7		23	Sep 13		3.9	Jul 25 1949
ANNUAL SEVEN-DAY MINIMUM	25	Nov 7		25	Nov 7		a32000	Sep 21 1938
MAXIMUM PEAK FLOW				1800	May 14		b16.39	Sep 21 1938
MAXIMUM PEAK STAGE				6.44	May 14		0.30	Aug 6 1937
INSTANTANEOUS LOW FLOW				21	Sep 13			
10 PERCENT EXCEEDS	557			305			670	
50 PERCENT EXCEEDS	112			85			190	
90 PERCENT EXCEEDS	35			29			36	

a From computation of peak flow over dam 2 mi upstream.

b From floodmarks.



## THAMES RIVER BASIN

## 01122500 SHETUCKET RIVER NEAR WILLIMANTIC, CT

**LOCATION.**--Lat 41°42'01", long 72°10'57", Windham County, Hydrologic Unit 01100002, on right bank at downstream side of Bingham Bridge on Plains Rd., 500 ft upstream from Penn. Central Co. railroad bridge, 500 ft downstream from Potash Brook, 1.3 mi downstream from confluence of Willimantic and Natchaug Rivers, 1.5 mi southeast of Willimantic, and 17 mi upstream from mouth.

**DRAINAGE AREA.**--404 mi<sup>2</sup>.

**PERIOD OF RECORD.**--Discharge: April 1904 to December 1905, October 1919 to September 1921, September 1928 to current year.

Published as "at South Windham" October 1919 to September 1921, September 1928 to September 1933. Monthly discharge only for some periods, published in WSP 1301.

Water-quality records: Water years 1957, 1968-74.

Daily water temperature: Water year 1957.

Daily specific conductance: Water year 1957.

Daily pH: Water year 1957.

Daily iron: Water year 1957.

**REVISED RECORDS.**--WSP 781: 1934(M). WSP 801: 1935. WSP 1201: 1905(M), 1920-21. WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder since Dec. 5, 1933. Datum of gage is 131.40 ft above sea level (levels by Corps of Engineers). Apr. 4, 1904, to Dec. 31, 1905, nonrecording gage at present site and about the same datum. October 1919 to Sept. 30, 1921, and Sept. 1, 1928 to Sept. 30, 1933, water-stage recorder at site 1.5 mi downstream at different datum. Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow regulated by mills and flood detention reservoirs on Willimantic River, by pumping for municipal water supply of city of Willimantic on the Natchaug River, and by Mansfield Hollow Lake flood-control reservoir.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 4,380 ft<sup>3</sup>/s, May 14, gage height, 7.85 ft; minimum discharge, 42 ft<sup>3</sup>/s, Aug. 19, Sept. 13, 14, gage height, 1.67 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	144	152	e110	251	209	1070	930	1010	223	82	86
2	133	141	148	e100	307	199	1060	653	784	191	101	114
3	122	146	145	e95	256	599	933	984	610	147	170	111
4	114	147	142	e90	242	694	947	932	531	136	140	282
5	106	119	140	e95	221	604	754	715	523	136	109	175
6	99	106	125	109	224	512	621	648	804	129	90	113
7	130	88	94	151	216	474	576	577	2250	124	74	86
8	188	90	90	150	211	353	552	459	2610	121	68	74
9	172	86	101	143	206	330	544	433	1680	121	61	66
10	127	81	97	139	196	406	543	438	1040	165	57	63
11	106	81	96	153	291	406	520	374	782	132	56	62
12	107	75	98	171	301	357	408	380	709	117	53	52
13	117	73	106	199	279	340	399	866	881	108	53	45
14	110	72	114	224	220	353	407	3470	662	103	51	48
15	128	71	136	249	223	363	493	3240	948	107	50	89
16	206	71	152	235	225	357	606	1730	1480	99	49	133
17	202	70	135	217	225	371	554	1130	1050	87	48	109
18	191	69	231	225	231	364	525	1590	897	74	47	101
19	184	68	364	227	198	369	492	2260	604	119	45	112
20	181	70	477	235	190	414	426	1900	551	237	74	107
21	181	69	391	229	246	542	352	1340	492	151	93	104
22	178	71	196	226	307	636	340	978	446	117	69	109
23	174	70	174	225	268	578	388	923	419	138	61	e240
24	186	77	245	237	239	527	387	805	349	331	60	e180
25	174	78	285	277	219	503	410	652	277	280	67	e150
26	163	95	234	263	209	511	660	524	278	215	61	e220
27	177	108	206	236	211	1410	616	501	278	125	58	e300
28	168	105	e200	219	225	1870	665	484	261	118	54	e260
29	156	111	e180	214	---	1190	1300	509	255	129	88	e220
30	151	150	e160	225	---	789	1340	540	237	117	125	e190
31	147	---	e120	246	---	826	---	554	---	86	107	---
TOTAL	4723	2802	5534	5914	6637	17456	18888	31519	23698	4483	2321	4001
MEAN	152	93.4	179	191	237	563	630	1017	790	145	74.9	133
MAX	206	150	477	277	307	1870	1340	3470	2610	331	170	300
MIN	99	68	90	90	190	199	340	374	237	74	45	45

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1929	377	2246	1956	49.4	1958
1930	621	2156	1956	85.0	1932
1931	812	2667	1997	170	1931
1932	894	2945	1979	132	1981
1933	909	2246	1970	236	1980
1934	1422	3949	1936	563	2002
1935	1337	2943	1987	454	1985
1936	847	1814	1989	319	1957
1937	559	2911	1982	110	1957
1938	266	1755	1938	48.6	1957
1939	239	2114	1955	44.5	1957
1940	287	3571	1938	45.0	1957

e Estimated.

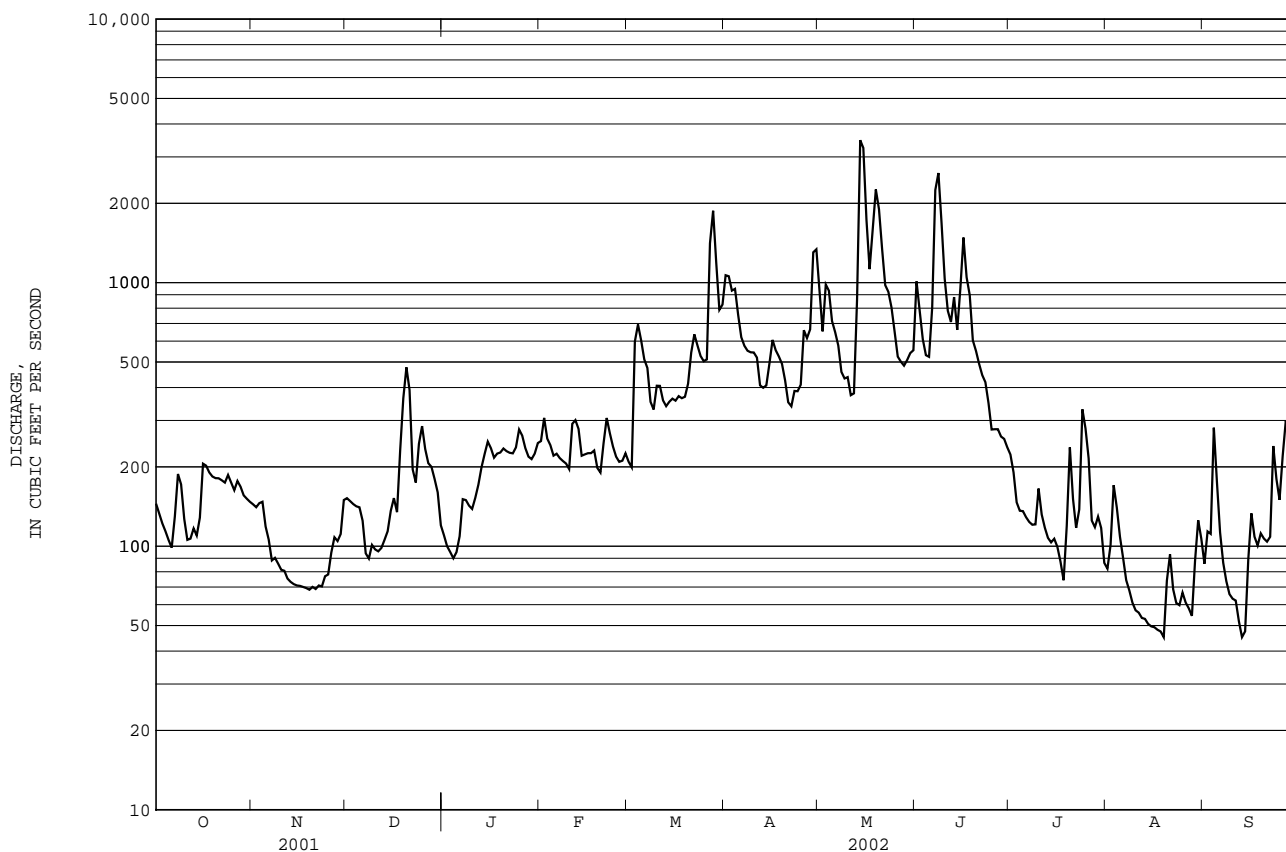
## 01122500 SHETUCKET RIVER NEAR WILLIMANTIC, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	204596			127674		713	
ANNUAL MEAN	561			350		1243	
HIGHEST ANNUAL MEAN						1938	
LOWEST ANNUAL MEAN						1965	
HIGHEST DAILY MEAN	5630	Mar 31		3470	May 14	35500	Sep 21 1938
LOWEST DAILY MEAN	63	Sep 20		42	Aug 19	19	Aug 22 1949
ANNUAL SEVEN-DAY MINIMUM	70	Nov 17		46	Aug 13	31	Sep 7 1995
MAXIMUM PEAK FLOW				4380	May 14	<sup>a</sup> 52200	Sep 21 1938
MAXIMUM PEAK STAGE				7.85	May 14	<sup>b</sup> 27.60	Sep 21 1938
INSTANTANEOUS LOW FLOW				<sup>c</sup> 42	Aug 19	15	Aug 29 1949
10 PERCENT EXCEEDS	1420			795		1580	
50 PERCENT EXCEEDS	245			206		460	
90 PERCENT EXCEEDS	87			72		102	

<sup>a</sup> From rating curve extended above 11,000 ft<sup>3</sup>/s on basis of computation of peak flow over Scotland and Baltic Dams, 5 and 9 mi downstream, respectively, adjusted for flow from intervening area.

<sup>b</sup> From floodmarks.

<sup>c</sup> Also occurred Sep. 13, 14.



## THAMES RIVER BASIN

## 01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT

**LOCATION.**--Lat 41°40'56", long 72°09'59", Windham County, Hydrologic Unit 01100002, at bridge on State Rt. 203, at South Windham, 0.8 mi downstream from Jordan Brook, and 1.8 mi upstream from Cold Brook.

**DRAINAGE AREA.**--408 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water year 1974 to current year.

**PERIOD of DAILY RECORD.**--

SPECIFIC CONDUCTANCE: August 1980 to September 1992.

WATER TEMPERATURES: August 1980 to September 1992.

**INSTRUMENTATION.**--Water-quality monitor August 1980 to September 1992.

**REMARKS.**--Discharges shown for this location are computed by determining the discharge for station 01122500, 1.6 mi upstream, and adjusting its discharge by multiplying by a factor of 1.01, which is the ratio of the two stations' drainage areas.

**EXTREMES FOR PERIOD of DAILY RECORD.**--

SPECIFIC CONDUCTANCE: Maximum, 301 microsiemens May 21, 1982; minimum, 27 microsiemens Aug. 14, 1989.

WATER TEMPERATURES: Maximum, 29.0°C July 18, 19, 1982, Aug. 15, 1988; minimum, 0.0°C on many days during winter period.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 17...	0930	202	123	7.0	13.0	14.0	2.0	9.2	91	216	80	28	7.64	
NOV 08...	1450	87	158	7.6	13.0	9.5	1.1	14.1	124	10k	7k	33	9.47	
DEC 05...	1240	142	136	7.3	20.0	9.0	1.4	12.4	107	160	47	30	8.09	
JAN 09...	1340	142	154	6.8	2.5	1.5	1.4	14.1	102	38	52	33	9.19	
MAR 13...	1340	345	121	7.1	11.0	5.5	1.2	13.6	108	368k	95	25	6.69	
APR 10...	1030	541	111	7.1	17.0	12.5	1.3	10.9	101	232	107	22	5.73	
MAY 15...	1230	3200	80	6.4	15.0	11.5	3.7	10.9	104	1060	460	17	4.29	
JUN 20...	1300	550	102	6.7	30.0	20.5	2.0	10.0	110	42	28k	20	5.53	
JUL 22...	1200	117	139	7.0	30.5	24.5	2.0	8.5	102	53	14	29	8.12	
AUG 19...	1215	45	163	7.1	36.0	27.0	1.7	8.7	110	41	14k	34	9.41	
SEP 03...	1015	128	156	6.8	24.5	19.0	2.1	8.7	94	136	93k	32	8.95	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 17...	2.11	11.1	2.30	0	24	20	8.7	17.7	E.1	5.30	70	76	E.005	
NOV 08...	2.36	15.3	3.15	0	26	21	12.6	23.6	.1	5.32	92	98	<.008	
DEC 05...	2.30	12.5	2.46	0	21	18	10.8	19.5	E.1	5.67	80	80	<.008	
JAN 09...	2.54	13.7	2.39	0	18	15	13.9	24.6	E.1	9.87	98	102	E.004	
MAR 13...	2.02	10.1	1.63	0	16	13	10.8	16.9	<.1	6.76	82	78	.009	
APR 10...	1.82	9.64	1.43	0	13	11	9.6	16.9	.1	5.42	62	63	<.008	
MAY 15...	1.41	6.93	1.21	0	8	6	7.1	11.4	E.1n	5.96	53	71	<.008	
JUN 20...	1.62	8.61	1.32	0	17	14	7.7	14.4	E.1n	7.77	70	68	.011	
JUL 22...	2.17	13.3	2.24	0	20	16	10.7	19.1	E.1	5.73	88	88	.058	
AUG 19...	2.51	15.6	2.76	0	26	21	10.4	21.0	.2	5.64	95	93	.155	
SEP 03...	2.38	14.6	2.91	0	23	19	12.1	20.9	.1	6.34	84	84	.041	

## THAMES RIVER BASIN

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## 01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)
OCT 17...	.18	<.04	--	.35	.24	.53	.053	.031	.02	9	.09	8	<.06
NOV 08...	.27	<.04	--	.25	.23	.52	.062	.054	.04	10	.14	8	<.06
DEC 05...	.25	<.04	--	.29	.20	.54	.050	.019	<.02	8	.09	7	<.06
JAN 09...	.64	E.04	--	.26	.23	.89	.077	.068	.05	15	.12	9	<.06
MAR 13...	.29	<.04	--	.30	.22	.59	.019	.007	<.02	23	.06	7	<.06
APR 10...	.20	<.04	--	.31	.20	.51	.032	.018	E.01	1	.08	8	<.06
MAY 15...	.13	<.04	--	.37	.28	.50	.072	.014	<.02	56	<.05	8	<.06
JUN 20...	.30	E.03	--	.36	.33	.67	.036	.020	<.02	34	.08	8	<.06
JUL 22...	.56	.04	.41	.45	.34	1.0	.058	.036	.02	15	.08	8	<.06
AUG 19...	.87	.11	.43	.55	.41	1.4	.060	.038	.02	10	.14	10	<.06
SEP 03...	.59	.09	.27	.36	.32	.95	.061	.041	.03	8	E.04	10	<.06
Date	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)
OCT 17...	<.1	<.04	<.8	E.5	.07	E1.2	.9	280	128	<1	.11	10.2	.2
NOV 08...	<.1	<.04	E.5	<.8	.07	E1.0	.9	230	165	<1	.19	6.8	.3
DEC 05...	<.1	<.04	<.8	<.8	.05	E1.0	.8	290	146	M	.13	8.6	.2
JAN 09...	<.1	<.04	<.8	<.8	.10	1.2	1.1	300	186	<1	.22	25.5	.3
MAR 13...	<.1	<.04	<.8	<.8	.08	E.9	.8	240	131	<1	.12	24.3	.3
APR 10...	--	<.04	--	<.8	.09	--	.8	--	125	--	.13	21.9	E.2
MAY 15...	<.1	<.04	E.6	<.8	.10	E1.2	.9	510	171	M	.20	20.6	E.1
JUN 20...	<.1	<.04	11.5	<.8	.09	1.3	1.0	510	282	1	.25	15.8	.3
JUL 22...	<.1	<.04	<.8	<.8	.07	1.9	1.1	460	182	<1	.19	14.9	1.4
AUG 19...	<.1	<.04	<.8	.8	.12	E.7	1.2	270	159	<1	.12	32.0	.6
SEP 03...	<.1	<.04	<.8	<.8	.08	1.5	1.0	370	130	1	.19	14.6	.6

## THAMES RIVER BASIN

## 01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 17...	<2.0	.47	<1	<20	2	E.01	5.0
NOV 08...	<2.0	.47	<1	<20	3	.04	4.1
DEC 05...	<2.0	.25	<1	<20	2	.02	3.4
JAN 09...	<2.0	.60	<1	<20	5	.03	4.1
MAR 13...	<2.0	.39	<1	<20	3	.03	4.3
APR 10...	--	.42	<1	--	2	.03	3.8
MAY 15...	<2.0	.69	<1	<20	3	.04	7.6
JUN 20...	6.4	.69	<1	<20	4	.04	5.4
JUL 22...	<2.0	.81	<1	E30	2	.02	4.7
AUG 19...	<2.0	.74	<1	<20	3	.02	4.3
SEP 03...	<2.0	.49	<1	<20	2	.02	3.9

Value qualifier codes used in this report:

k -- Counts outside acceptable range

n -- Below the NDV

## Science Challenge

What percentage of the world's water is held in its oceans?  
Which of the Earth's oceans is the largest?

Find more earth science information on our website at <http://www.usgs.gov>

Approximately 97 percent of the earth's total water supply is contained in the oceans.  
The Pacific Ocean is the largest ocean at 64,186,000 square miles. It is more than two times the size of the Atlantic Ocean. It has an average depth of 12,925 feet, and the greatest known depth is 36,198 feet at the Mariana Trench.

## THAMES RIVER BASIN

## 01123000 LITTLE RIVER NEAR HANOVER, CT

**LOCATION.**--Lat 41°40'18", long 72°03'10", Windham County, Hydrologic Unit 01100002, on left bank 800 ft upstream from bridge on Hanover Rd., 0.7 mi downstream from Peck Brook, 2.3 mi northeast of Hanover, and 6.5 mi upstream from mouth.

**DRAINAGE AREA.**--30.0 mi<sup>2</sup>.

**PERIOD of RECORD.**--July 1951 to current year.

**REVISED RECORDS.**--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 221.19 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 324 ft<sup>3</sup>/s, May 14, gage height, 3.55 ft; minimum discharge, 6.1 ft<sup>3</sup>/s, Sept. 13, 14, 15, gage height, 1.26 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	8.0	8.3	e8.0	e14	18	87	48	61	22	11	9.8
2	15	8.0	8.3	12	e14	18	68	47	42	21	12	14
3	12	8.7	7.8	12	e13	93	52	60	33	20	18	15
4	10	9.4	7.4	11	e13	65	56	45	29	18	14	14
5	9.5	9.6	7.3	11	e12	39	46	38	29	17	12	12
6	8.7	9.6	7.2	12	e12	33	41	34	63	16	11	10
7	8.9	9.3	7.3	17	18	30	36	31	169	16	9.8	9.1
8	9.5	9.1	6.8	e9.0	18	28	34	30	104	16	9.3	8.3
9	8.7	8.9	8.6	e10	18	26	33	27	65	16	9.1	7.8
10	9.0	9.1	8.3	16	17	41	33	27	51	17	8.8	7.4
11	8.3	9.8	8.5	17	30	39	31	24	42	17	8.5	7.1
12	7.7	9.5	9.1	20	28	30	29	24	43	15	8.1	6.6
13	7.6	8.6	9.7	24	22	28	28	71	57	14	7.9	6.3
14	8.1	8.5	9.9	28	28	28	30	256	49	13	7.7	6.3
15	8.5	8.4	13	27	23	26	32	112	67	13	7.3	6.7
16	9.6	7.9	13	27	18	25	33	69	64	14	7.2	18
17	10	7.6	10	23	18	24	29	55	55	12	7.0	16
18	9.5	7.6	27	21	21	23	27	153	43	12	6.9	12
19	8.9	7.6	30	e16	20	26	25	139	41	12	6.7	9.5
20	8.3	7.6	21	e16	17	32	26	80	57	24	8.2	8.6
21	7.8	7.6	18	e16	26	54	25	62	43	17	10	8.1
22	7.7	7.6	16	e16	28	53	24	53	36	14	8.3	7.9
23	8.2	7.4	14	e15	22	40	29	46	33	15	7.6	21
24	8.4	7.4	22	e15	19	34	27	41	29	23	7.7	16
25	8.1	7.4	25	e14	18	31	27	42	26	17	8.1	12
26	7.6	7.4	20	e14	17	30	45	37	33	14	7.7	11
27	7.5	7.4	17	e14	17	117	38	36	31	13	7.4	25
28	7.7	8.6	e10	e14	19	78	45	34	27	13	6.9	26
29	7.7	8.4	e9.0	19	---	52	81	34	25	14	9.9	17
30	7.9	8.2	e8.5	e14	---	49	57	32	23	13	17	13
31	7.9	---	e8.5	e14	---	51	---	34	---	12	12	---
TOTAL	280.3	250.2	396.5	502.0	540	1261	1174	1821	1470	490	293.1	361.5
MEAN	9.04	8.34	12.8	16.2	19.3	40.7	39.1	58.7	49.0	15.8	9.45	12.1
MAX	16	9.8	30	28	30	117	87	256	169	24	18	26
MIN	7.5	7.4	6.8	8.0	12	18	24	24	23	12	6.7	6.3
CFSM	0.30	0.28	0.43	0.54	0.64	1.36	1.30	1.96	1.63	0.53	0.32	0.40
IN.	0.35	0.31	0.49	0.62	0.67	1.56	1.46	2.26	1.82	0.61	0.36	0.45

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2002, BY WATER YEAR (WY)

	MEAN	30.8	51.4	67.2	76.1	76.7	107	98.5	64.8	44.4	20.7	18.2	17.1
MAX	186	147	179	288	172	221	229	133	221	73.5	116	77.6	
(WY)	1956	1956	1997	1979	1970	1972	1983	1967	1982	1972	1955	1954	
MIN	5.25	8.34	12.8	11.6	19.3	40.7	29.2	26.8	11.4	5.85	4.95	4.98	
(WY)	1964	2002	2002	1981	2002	2002	1985	1957	1999	1957	1993	1965	

e Estimated.



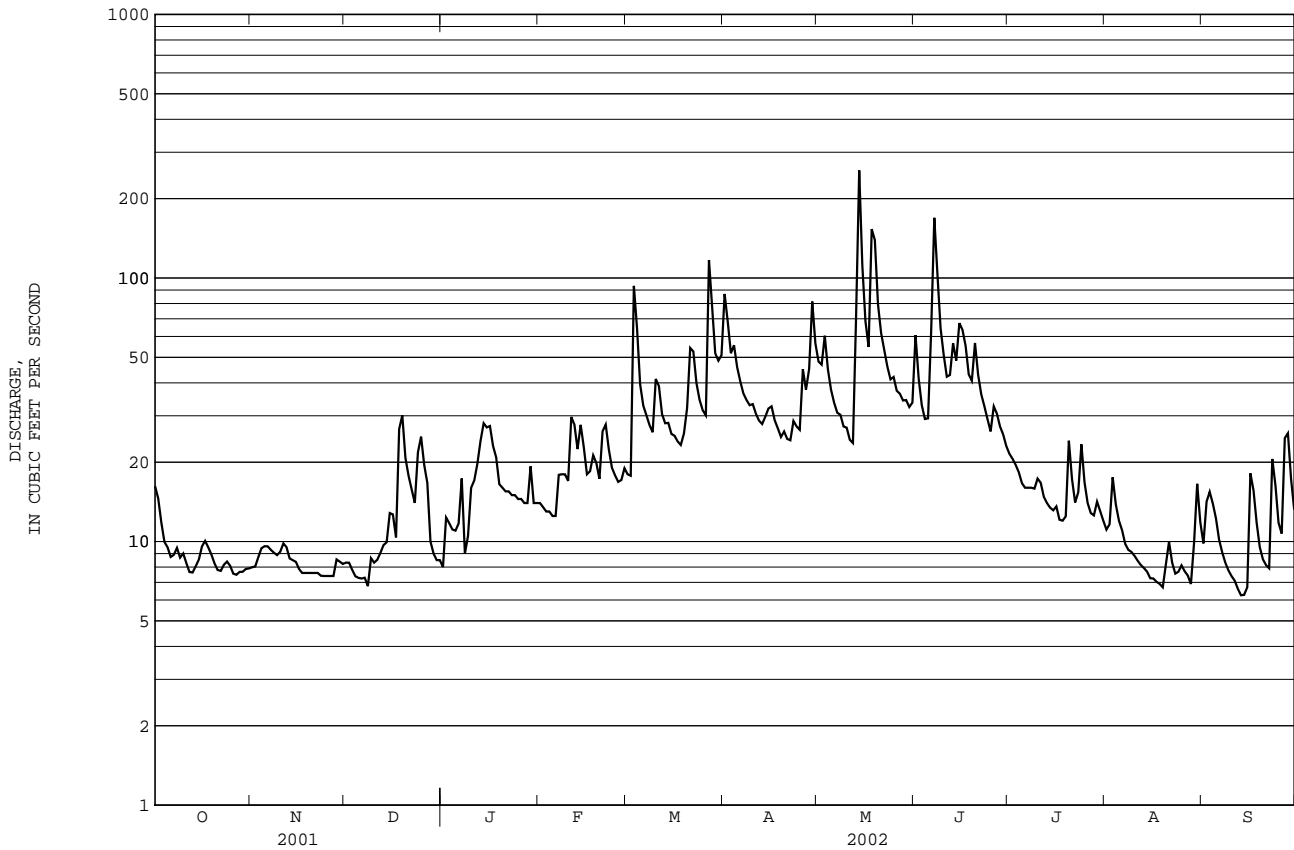
THAMES RIVER BASIN

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01123000 LITTLE RIVER NEAR HANOVER, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1952 - 2002	
ANNUAL TOTAL	14948.7		8839.6		56.0	
ANNUAL MEAN	41.0		24.2		86.2	
HIGHEST ANNUAL MEAN					24.2	
LOWEST ANNUAL MEAN					24.2	
HIGHEST DAILY MEAN	922	Jun 18	256	May 14	1960	Jun 6 1982
LOWEST DAILY MEAN	6.0	Sep 20	6.3	Sep 13	3.4	Aug 19 1987
ANNUAL SEVEN-DAY MINIMUM	6.8	Sep 7	6.9	Sep 9	4.0	Sep 6 1963
MAXIMUM PEAK FLOW			324	May 14	a2450	Jun 6 1982
MAXIMUM PEAK STAGE			3.55	May 14	b8.31	Jun 6 1982
INSTANTANEOUS LOW FLOW			d6.1	Sep 13	c2.9	Aug 16 1988
ANNUAL RUNOFF (CFSM)	1.37		0.81		1.87	
ANNUAL RUNOFF (INCHES)	18.54		10.96		25.35	
10 PERCENT EXCEEDS	88		50		115	
50 PERCENT EXCEEDS	22		16		36	
90 PERCENT EXCEEDS	7.9		7.7		8.8	

- a From rating curve extended above 820 ft<sup>3</sup>/s.  
b From floodmarks in gage well.  
c Also occurred Aug. 20, 22, 1988.  
d Also occurred Sep. 14, 15.



## THAMES RIVER BASIN

## 01124000 QUINEBAUG RIVER AT QUINEBAUG, CT

**LOCATION.**--Lat 42°01'20", long 71°57'22", Windham County, Hydrologic Unit 01100001, on right bank at Quinebaug, 500 ft upstream from bridge on State Rt. 197, 0.2 mi downstream from Massachusetts-Connecticut State line, 7.8 mi upstream from French River, and at mile 46.

**DRAINAGE AREA.**--155 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--September 1931 to current year.

**REVISED RECORDS.**--WSP 851: 1936(M). WSP 1201: 1939-43, 1949. WSP 1381: 1938(M). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 341.52 ft above sea level. Telephone telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow regulated by East Brimfield and Westville Lakes, and by smaller reservoirs upstream.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 904 ft<sup>3</sup>/s, May 14, gage height, 4.19 ft; minimum discharge, 5.5 ft<sup>3</sup>/s, Nov. 10, gage height, 1.96 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	34	31	e44	114	98	470	393	244	84	32	28
2	79	36	30	e42	120	96	484	346	227	75	56	34
3	78	33	28	e38	100	241	439	538	210	65	107	36
4	62	34	27	e36	101	252	388	453	201	71	78	36
5	51	40	27	35	92	233	345	396	217	81	67	33
6	43	57	27	36	86	200	325	348	326	66	59	31
7	42	57	26	52	75	180	294	297	575	58	49	29
8	40	49	25	e46	69	165	279	256	643	54	41	28
9	37	41	30	e45	68	150	246	237	529	51	36	26
10	35	6.6	29	60	65	188	217	243	463	52	33	24
11	57	10	29	38	129	178	183	202	379	46	31	22
12	48	22	29	50	111	161	166	200	370	42	29	20
13	50	23	31	78	108	153	178	384	321	36	26	20
14	57	24	34	46	99	148	156	797	267	34	24	19
15	66	24	44	58	82	138	193	684	268	32	22	19
16	89	25	37	55	85	147	195	621	295	30	21	20
17	107	24	48	52	85	143	209	603	369	28	18	19
18	133	24	142	50	95	150	186	693	428	28	16	19
19	105	23	108	e48	93	151	184	728	364	66	16	19
20	78	23	85	e46	92	170	185	636	310	61	18	19
21	70	23	84	e44	119	206	167	562	262	52	17	19
22	61	22	79	e42	127	225	180	465	187	49	16	19
23	51	22	55	e50	129	195	197	400	187	58	16	21
24	49	23	99	58	124	193	181	324	203	65	16	20
25	49	24	76	62	120	192	176	299	171	56	15	20
26	45	39	79	61	107	202	236	265	129	50	15	20
27	33	30	61	59	113	483	207	251	98	46	15	35
28	33	27	54	58	106	403	336	248	112	44	15	71
29	31	28	53	59	---	320	484	240	107	42	17	65
30	31	28	e48	72	---	399	469	223	94	38	28	64
31	32	---	e46	89	---	386	---	250	---	34	30	---
TOTAL	1820	875.6	1601	1609	2814	6546	7955	12582	8556	1594	979	855
MEAN	58.7	29.2	51.6	51.9	100	211	265	406	285	51.4	31.6	28.5
MAX	133	57	142	89	129	483	484	797	643	84	107	71
MIN	31	6.6	25	35	65	96	156	200	94	28	15	19

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

	MEAN	151	227	308	333	337	536	542	308	212	100	108	110
MAX	701	711	1008	1028	845	1669	1239	658	1057	700	1971	1296	
(WY)	1956	1956	1997	1979	1970	1936	1940	1989	1982	1938	1955	1938	
MIN	16.3	29.2	51.6	51.9	83.0	211	169	131	33.2	17.8	12.9	12.2	
(WY)	1958	2002	2002	2002	1980	2002	1985	1957	1999	1957	1957	1957	

e Estimated.

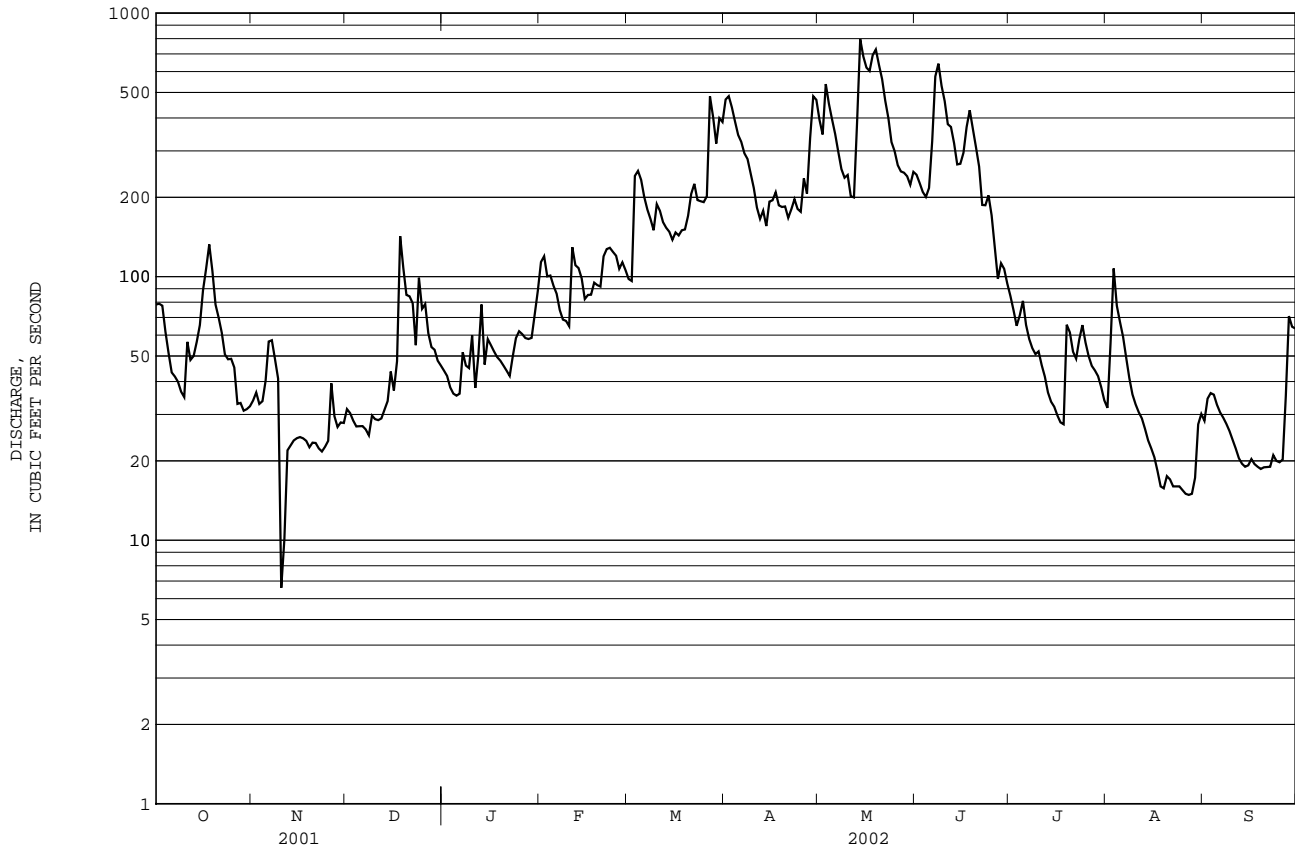
## 01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1932 - 2002	
ANNUAL TOTAL	66582.4		47786.6		272	
ANNUAL MEAN	182		131		466	
HIGHEST ANNUAL MEAN					124	
LOWEST ANNUAL MEAN					1955	
HIGHEST DAILY MEAN	1420	Apr 9	797	May 14	26500	Aug 19 1955
LOWEST DAILY MEAN	6.6	Nov 10	6.6	Nov 10	1.0	Sep 4 1956
ANNUAL SEVEN-DAY MINIMUM	19	Nov 10	15	Aug 22	8.7	Sep 30 1957
MAXIMUM PEAK FLOW			904	May 14	<b>a</b> 49300	Aug 19 1955
MAXIMUM PEAK STAGE			4.19	May 14	<b>b</b> 18.96	Aug 19 1955
INSTANTANEOUS LOW FLOW			5.5	Nov 10	<b>c</b> 1.0	Sep 4 1956
10 PERCENT EXCEEDS	392		345		607	
50 PERCENT EXCEEDS	90		65		182	
90 PERCENT EXCEEDS	27		23		36	

**a** From rating curve extended above 5,100 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

**b** From floodmarks.

**c** Also occurred July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sep. 4, 1956, Oct. 29, 1956, and Jan. 27, 1985 (ice siphoning).



## THAMES RIVER BASIN

## 01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

## WATER-QUALITY RECORDS

**PERIOD of RECORD.**--Chemical analyses available for water years 1953 (WSP 1290), 1960 (WSP 1741), 1963 (WSP 1941), 1969 (WSP 2143). Water temperatures available for water year 1960 (WSP 1741). 1980 to current year.

**PERIOD of DAILY RECORD.**--

SPECIFIC CONDUCTANCE: October 1959 to September 1960, October 1968 to September 1969.

pH: October 1959 to September 1960, October 1968 to September 1969.

WATER TEMPERATURES: October 1959 to September 1960, October 1968 to September 1969.

DISSOLVED OXYGEN: October 1959 to September 1960, October 1968 to September 1969.

**EXTREMES FOR PERIOD of DAILY RECORD.**--

SPECIFIC CONDUCTANCE: Maximum, 308 microsiemens Jan. 31, 1969; minimum, 49 microsiemens April 2, 1960.

pH: Maximum, 7.7 units June 14, 1969; minimum, 5.8 units July 18, 1969.

WATER TEMPERATURES: Maximum, 30.5°C July 16, 1969; minimum, 0.0 C on many days during December to March.

DISSOLVED OXYGEN: Maximum, 15.1 mg/L Dec. 28, 1968; minimum, 1.4 mg/L Sept. 7, 1969.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO- COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV													
06...	1040	44	325	7.3	11.0	8.0	2.4	12.1	103	112k	8k	48	14.3
JAN													
08...	1055	46	326	7.0	-3.0	.0	2.4	14.0	97	88	76	46	13.0
MAR													
11...	1110	176	230	7.0	2.0	6.5	1.1	13.1	106	160	104	31	8.58
MAY													
13...	0930	235	196	7.0	9.0	13.0	4.3	9.5	91	212	220	28	7.77
JUN													
21...	0945	414	165	6.7	27.0	20.0	2.3	8.1	91	148	115	24	6.60
JUL													
24...	0920	66	272	7.2	20.5	24.0	5.5	8.0	95	148	84	40	11.4
AUG													
20...	0915	19	280	7.3	23.0	22.5	2.1	7.7	90	1000	3900	46	13.2
SEP													
05...	0845	33	327	7.2	20.5	19.0	2.4	8.6	95	67k	32	52	15.5

Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED TOTAL (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
NOV													
06...	2.97	42.3	3.13	0	24	20	14.3	72.6	.1	3.74	212	178	.010
JAN													
08...	3.22	40.7	3.20	0	21	17	13.4	77.5	E.1	6.69	180	180	.102
MAR													
11...	2.32	27.9	1.97	0	13	11	10.9	51.7	E.1n	4.56	122	116	.045
MAY													
13...	2.12	23.2	1.72	0	12	10	9.8	42.2	<.1	3.57	116	123	E.005
JUN													
21...	1.87	18.2	1.50	0	13	11	7.5	34.7	<.1	5.03	101	107	E.006
JUL													
24...	2.79	32.5	2.52	0	23	19	12.2	58.4	.1	5.05	160	160	E.005
AUG													
20...	3.06	31.6	3.13	0	27	22	16.4	54.0	.1	3.45	157	99	E.004
SEP													
05...	3.36	37.8	3.79	0	26	21	18.7	68.2	.1	4.96	186	180	<.008

Date	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)
NOV													
06...	.66	<.04	--	.43	.30	1.1	.042	.013	<.02	7	.20	13	<.06
JAN													
08...	.54	.08	.42	.50	.40	1.0	.072	.035	.02	15	.11	13	<.06
MAR													
11...	.18	<.04	--	.31	.21	.49	.039	.011	<.02	18	.07	11	<.06
MAY													
13...	.21	E.04	--	.44	.29	.65	.046	.015	<.02	19	.14	13	<.06
JUN													
21...	.20	<.04	--	.48	.31	.68	.062	.023	<.02	23	.12	11	<.06
JUL													
24...	.41	E.02	--	.45	.31	.85	.054	.020	<.02	8	.17	13	<.06
AUG													
20...	.36	<.04	--	.39	.32	.75	.035	.030	E.01	4	.28	15	<.06
SEP													
05...	.73	<.04	--	.35	.26	1.1	.040	.017	<.02	6	.32	16	<.06

## 01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 06...	E.04	<.8	.11	1.2	156	.27	43.1	4.4	1.15	<1	3	<.02	7.0
JAN 08...	.04	<.8	.16	1.2	272	.22	86.0	2.3	.83	<1	6	<.02	5.5
MAR 11...	E.03	<.8	.15	.9	124	.22	62.4	.3	.74	<1	4	<.02	4.8
MAY 13...	E.02	<.8	.19	1.2	271	.43	92.7	.3	.96	<1	5	E.01	5.6
JUN 21...	<.04	<.8	.17	.9	420	.54	65.1	.4	.86	<1	2	E.01	6.8
JUL 24...	E.02	<.8	.15	1.3	233	.38	55.9	1.2	.92	<1	3	<.02	5.6
AUG 20...	.04	<.8	.17	1.5	46	.15	79.5	2.1	1.40	<1	3	<.02	5.1
SEP 05...	E.03	<.8	.14	1.7	236	.47	46.9	1.9	1.26	<1	4	<.02	4.3

Value qualifier codes used in this report:  
k -- Counts outside acceptable range  
n -- Below the NDV

## THAMES RIVER BASIN

## 01125100 FRENCH RIVER AT NORTH GROSVENORDALE, CT

**LOCATION.**--Lat 41°58'41", long 71°54'03", Windham County, Hydrologic Unit 01100002, at Red Bridge Rd., 0.5 mi south of North Grosvenordale, 0.45 mi downstream from Backwater Brook, 1.2 mi upstream from Stoud Brook.

**DRAINAGE AREA.**--101 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--Partial-record gage October 1991 to June 2000. June 2000 to September 2001. June 10, 2002 to September 30, 2002.

**GAGE.**--Nonrecording gage October 1991 to June 2000. Water-stage recorder. Datum of gage is 350.00 ft above sea level.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by Hodges Village and Buffumville Reservoirs, by Lake Chaubunagungamaug and other smaller reservoirs upstream.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 367 ft<sup>3</sup>/s, June 9, gage height, 8.06 ft; minimum discharge, 6.8 ft<sup>3</sup>/s, Aug. 27, 28, 29, gage height, 6.31 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	---	---	---	---	---	---	---	---	59	18	9.6
2	21	---	---	---	---	---	---	---	---	55	20	12
3	21	---	---	---	---	---	---	---	---	51	21	12
4	---	---	---	---	---	---	---	---	---	45	18	11
5	---	---	---	---	---	---	---	---	---	48	16	11
6	---	---	---	---	---	---	---	---	---	43	16	9.9
7	---	---	---	---	---	---	---	---	---	40	14	9.4
8	---	---	---	---	---	---	---	---	---	38	14	9.4
9	---	---	---	---	---	---	---	---	---	37	14	8.7
10	---	---	---	---	---	---	---	---	335	37	14	8.4
11	---	---	---	---	---	---	---	---	291	33	14	8.4
12	---	---	---	---	---	---	---	---	237	30	14	8.0
13	---	---	---	---	---	---	---	---	166	28	14	9.0
14	---	---	---	---	---	---	---	---	151	27	14	9.7
15	---	---	---	---	---	---	---	---	162	27	14	11
16	---	---	---	---	---	---	---	---	164	26	14	17
17	---	---	---	---	---	---	---	---	223	26	14	17
18	---	---	---	---	---	---	---	---	224	25	13	12
19	---	---	---	---	---	---	---	---	260	29	11	9.7
20	---	---	---	---	---	---	---	---	233	27	23	9.0
21	---	---	---	---	---	---	---	---	199	22	16	8.9
22	---	---	---	---	---	---	---	---	177	21	12	9.0
23	---	---	---	---	---	---	---	---	165	25	11	18
24	---	---	---	---	---	---	---	---	129	28	10	14
25	---	---	---	---	---	---	---	---	145	22	11	9.7
26	---	---	---	---	---	---	---	---	93	20	9.3	9.4
27	---	---	---	---	---	---	---	---	95	21	7.5	15
28	---	---	---	---	---	---	---	---	85	21	6.8	16
29	---	---	---	---	---	---	---	---	72	21	10	13
30	---	---	---	---	---	---	---	---	64	20	14	13
31	---	---	---	---	---	---	---	---	---	19	11	---
TOTAL	---	---	---	---	---	---	---	---	---	971	428.6	338.2
MEAN	---	---	---	---	---	---	---	---	---	31.3	13.8	11.3
MAX	---	---	---	---	---	---	---	---	---	59	23	18
MIN	---	---	---	---	---	---	---	---	---	19	6.8	8.0

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

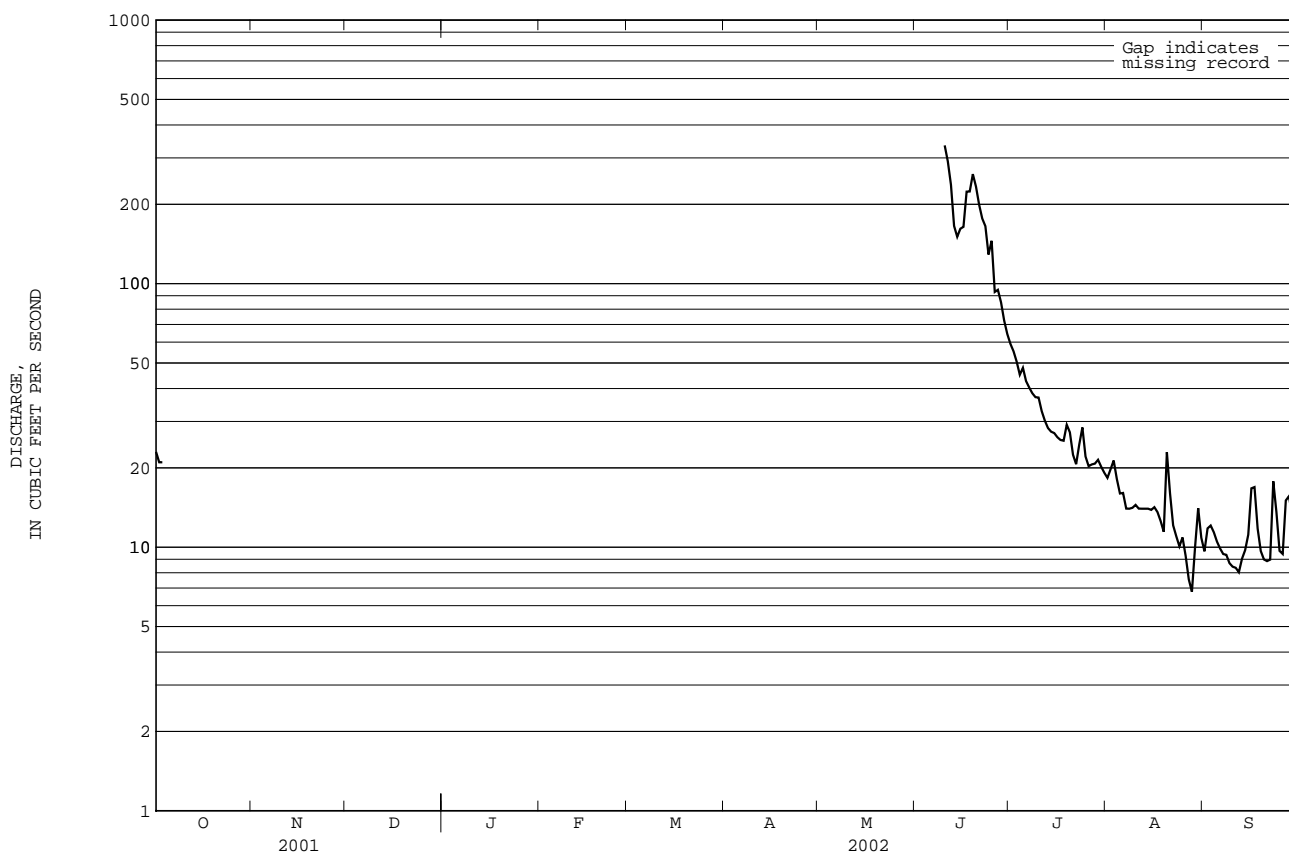
MEAN	44.7	82.7	145	79.6	126	382	572	76.0	211	60.5	32.1	19.1
MAX	44.7	82.7	145	79.6	126	382	572	76.0	232	75.7	42.5	25.2
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2000	2001	2000	2000
MIN	44.7	82.7	145	79.6	126	382	572	76.0	190	31.3	13.8	11.3
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2002	2002	2002

## 01125100 FRENCH RIVER AT NORTH GROSVENORDALE, CT--Continued

## SUMMARY STATISTICS

WATER YEARS 2000 - 2002

ANNUAL MEAN	152	
HIGHEST ANNUAL MEAN	152	2001
LOWEST ANNUAL MEAN	152	2001
HIGHEST DAILY MEAN	943	Mar 30 2001
LOWEST DAILY MEAN	6.8	Aug 28 2002
ANNUAL SEVEN-DAY MINIMUM	8.8	Sep 7 2002
MAXIMUM PEAK FLOW	1220	Mar 30 2001
MAXIMUM PEAK STAGE	10.09	Mar 30 2001
INSTANTANEOUS LOW FLOW	6.8	Aug 27 2002
10 PERCENT EXCEEDS	357	
50 PERCENT EXCEEDS	82	
90 PERCENT EXCEEDS	26	



## THAMES RIVER BASIN

## 01125100 FRENCH RIVER AT NORTH GROSVENORDALE, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--October 1991 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	
NOV 06...	1335	43	221	7.3	10.5	11.0	2.8	11.9	109	21k	7k	31	9.73	
JAN 08...	1350	32	326	7.0	1.5	3.5	2.8	14.3	109	83k	49	42	13.1	
MAR 11...	1315	113	304	7.4	4.5	9.0	1.5	12.7	110	41	9k	38	11.8	
MAY 13...	1130	171	218	6.6	9.5	15.0	5.0	9.6	97	196	192	30	9.28	
JUN 21...	1215	211	204	7.1	28.0	21.0	1.2	8.9	100	20k	20k	26	8.14	
JUL 24...	1215	28	328	7.7	23.0	26.0	4.0	8.5	105	87k	52	37	11.6	
AUG 20...	1130	26	322	9.8	24.0	25.5	30	9.5	119	680	800	42	12.9	
SEP 05...	1015	8.0	429	9.5	22.5	21.0	20	9.1	103	100	84	40	12.4	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT MG/L AS CaCO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 06...	1.72	28.9	4.08	0	34	28	7.5	37.5	E.1	2.43	160	130	E.005	
JAN 08...	2.20	44.5	5.04	0	39	32	10.3	68.1	<.1	4.93	184	184	E.004	
MAR 11...	2.04	44.2	3.36	0	22	18	10.6	69.3	<.1	4.25	168	160	E.005	
MAY 13...	1.62	25.9	2.64	0	18	15	9.1	45.8	<.1	2.02	117	127	E.004	
JUN 21...	1.37	26.2	2.42	0	24	20	7.2	39.3	E.1n	3.31	114	120	E.006	
JUL 24...	2.06	47.1	4.64	0	51	42	13.3	55.1	E.1	.98	188	185	.019	
AUG 20...	2.23	40.1	4.79	13	8	29	16.5	59.0	E.08n	3.29	179	185	.027	
SEP 05...	2.29	67.3	6.50	10	65	70	20.8	63.0	E.1n	4.69	239	247	.019	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV 06...	1.59	E.03	.63	.53	2.2	.22	.186	.16	15	.36	8	<.06	<.06	<.04
JAN 08...	1.82	E.03	.67	.42	2.5	.29	.22	.22	14	.18	11	<.06	<.06	<.04
MAR 11...	.69	<.04	.42	.30	1.1	.137	.100	.08	19	.20	12	<.06	<.06	<.04
MAY 13...	.62	E.03	.58	.38	1.2	.068	.024	E.01	22	.12	14	<.06	<.06	E.02
JUN 21...	.63	E.02	.56	.45	1.2	.066	.039	.02	35	.15	13	<.06	<.06	<.04
JUL 24...	2.09	E.03	1.1	.68	3.2	.096	.043	E.02	49	.61	12	<.06	<.06	<.04
AUG 20...	1.54	<.04	2.1	.53	3.6	.191	.031	E.01	189	.63	11	<.06	<.06	<.04
SEP 05...	4.28	<.04	1.8	.69	6.0	.167	.053	.03	191	1.18	10	<.06	<.06	E.03



## 01125100 FRENCH RIVER AT NORTH GROSVENORDALE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 06...	E.5	.07	2.9	234	.74	24.7	E.2	.55	<1	2	.05	4.3
JAN 08...	<.8	.11	5.4	188	.35	33.3	E.2	.53	<1	6	.08	6.3
MAR 11...	<.8	.07	2.4	134	.30	21.0	1.6	.57	<1	4	.05	6.3
MAY 13...	<.8	.11	2.1	186	.67	60.4	E.2	.76	<1	5	.07	6.3
JUN 21...	E.5	.09	2.3	317	.64	42.3	.2	.74	<1	6	.10	7.4
JUL 24...	E.8	.17	4.2	242	1.00	30.8	.4	.72	<1	3	.14	8.2
AUG 20...	1.0	.20	6.0	244	1.15	51.5	.8	1.13	<1	5	.15	13.1
SEP 05...	1.2	.23	6.6	268	1.27	38.4	.9	1.50	<1	3	.52	11.1

Value qualifier codes used in this report:  
k -- Counts outside acceptable range  
n -- Below the NDV

## THAMES RIVER BASIN

## 01125500 QUINEBAUG RIVER AT PUTNAM, CT

**LOCATION.**--Lat 41°54'34", long 71°54'48", Windham County, Hydrologic Unit 01100001, on right bank at Putnam, 0.15 mi downstream from Little River, 0.3 mi upstream from New York, New Haven and Hartford Railroad bridge, 2.8 mi downstream from French River, 3.0 mi downstream from West Thompson Dam, and 36 mi upstream from mouth.

**DRAINAGE AREA.**--328 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--December 1929 to September 1969, October 1995 to current year. Monthly discharge only for October and November 1929, published in WSP 1301. Stage record only October 1974 to September 1995.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 216.76 ft above sea level. Prior to Aug. 1, 1958, at same site on left bank at same datum. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow regulated by East Brimfield, Westville, West Thompson, Hodges Village, and Buffumville Reservoirs, by Lake Chaubunagungamaug, estimated usable capacity 207,000,000 ft<sup>3</sup>, and by smaller reservoirs upstream.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 2,070 ft<sup>3</sup>/s, May 14, gage height, 6.26 ft; minimum discharge, 19 ft<sup>3</sup>/s, Sept. 21, gage height, 1.59 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	92	86	112	246	227	952	767	551	161	75	39
2	235	102	92	105	294	216	1030	680	527	138	82	50
3	259	104	94	107	275	411	1090	927	477	137	81	52
4	157	104	77	94	254	614	998	913	431	137	81	e55
5	104	98	82	95	229	533	793	822	363	121	84	e58
6	102	106	82	97	210	459	695	723	507	120	69	e55
7	94	100	79	138	198	411	639	637	855	114	60	e52
8	89	97	83	125	178	359	619	553	1190	110	63	e51
9	89	93	79	127	168	331	569	416	1330	110	58	e50
10	86	86	90	121	161	401	510	467	1020	107	55	50
11	69	75	78	137	242	390	404	431	749	102	52	48
12	64	72	89	142	275	373	391	398	667	56	50	44
13	67	70	86	166	260	356	386	634	573	66	47	41
14	67	65	96	193	233	390	395	1780	475	71	44	40
15	71	59	121	195	218	239	403	1770	480	79	41	41
16	97	58	121	189	210	316	430	1450	487	82	40	43
17	113	58	136	169	203	339	449	1310	620	86	39	46
18	144	58	226	160	216	342	406	1350	675	81	39	e42
19	190	62	292	141	214	358	416	1610	692	84	e38	e38
20	164	62	253	140	213	385	380	1440	585	86	e40	e25
21	147	67	219	136	239	480	380	1240	502	83	46	19
22	134	69	203	130	272	571	355	924	447	81	44	22
23	125	76	181	141	272	506	378	837	429	87	e39	36
24	139	65	214	165	261	480	367	754	339	93	e36	37
25	128	73	241	188	253	447	327	631	343	90	43	40
26	126	94	217	189	248	449	491	559	294	85	31	41
27	99	80	201	184	234	896	458	528	220	77	35	60
28	94	92	179	180	244	1120	491	512	200	79	40	96
29	93	91	157	179	---	953	751	523	184	80	46	105
30	100	103	142	187	---	853	907	464	176	80	e48	79
31	81	---	128	207	---	794	---	389	---	77	42	---
TOTAL	3666	2431	4424	4639	6520	14999	16860	26439	16388	2960	1588	1455
MEAN	118	81.0	143	150	233	484	562	853	546	95.5	51.2	48.5
MAX	259	106	292	207	294	1120	1090	1780	1330	161	84	105
MIN	64	58	77	94	161	216	327	389	176	56	31	19

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

	MEAN	270	433	545	638	660	1132	1133	617	424	236	220	253
MAX	1478	1553	1939	1289	1606	3627	2788	1090	1200	1773	2935	2276	
(WY)	1956	1956	1997	1937	1951	1936	1940	1945	1948	1938	1955	1938	
MIN	43.1	81.0	115	144	233	484	409	273	70.5	50.1	36.3	37.0	
(WY)	1958	2002	1931	1944	2002	2002	1966	1965	1999	1999	1999	1957	

e Estimated.

## THAMES RIVER BASIN

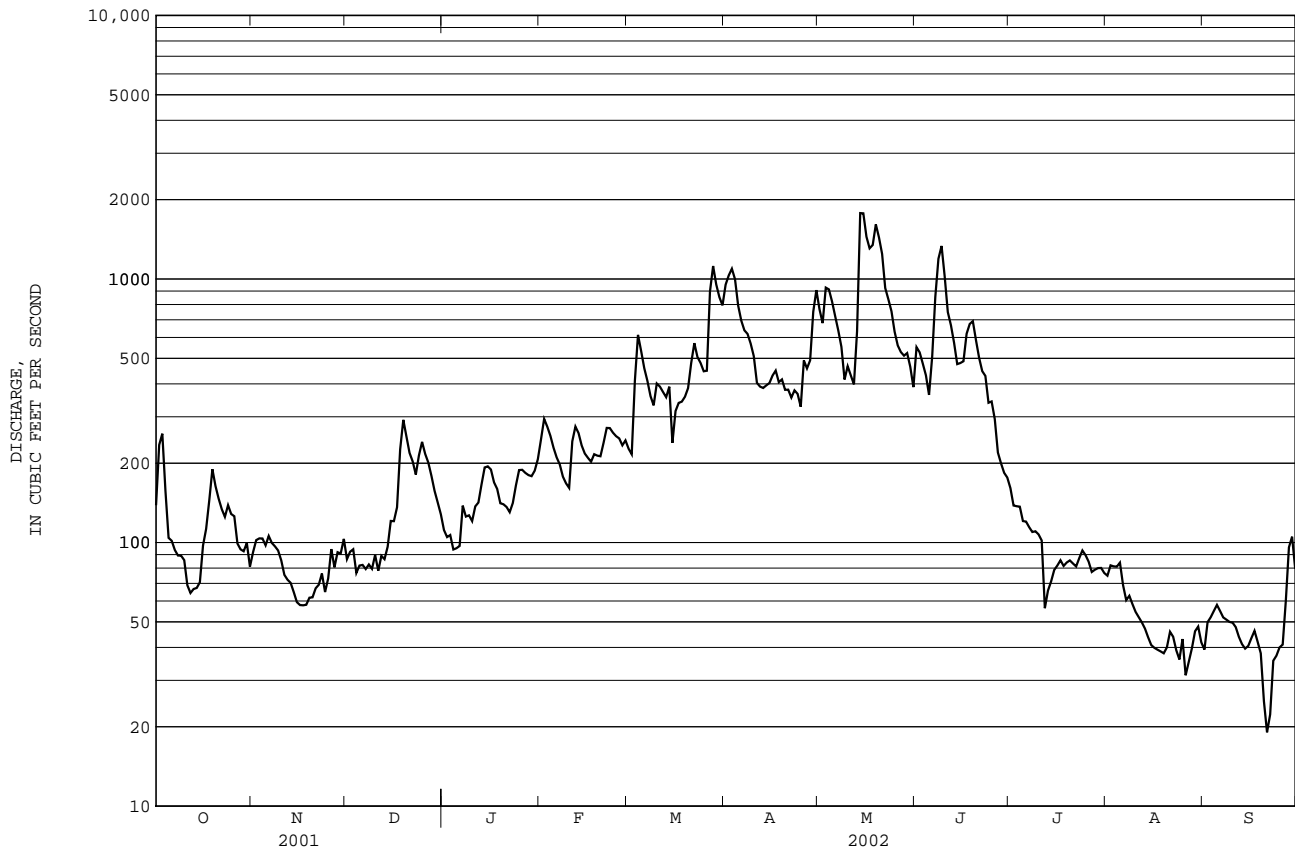
81

01125500 QUINEBAUG RIVER AT PUTNAM, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1930 - 2002	
ANNUAL TOTAL	158370		102369		550	
ANNUAL MEAN	434		280		988	
HIGHEST ANNUAL MEAN					257	
LOWEST ANNUAL MEAN					1938	
HIGHEST DAILY MEAN	3350	Mar 24	1780	May 14	26400	Aug 20 1955
LOWEST DAILY MEAN	57	Sep 13	19	Sep 21	8.0	Sep 3 1999
ANNUAL SEVEN-DAY MINIMUM	60	Nov 14	31	Sep 19	16	Sep 2 1999
MAXIMUM PEAK FLOW			2070	May 14	<b>a</b> 48000	Aug 19 1955
MAXIMUM PEAK STAGE			6.26	May 14	<b>b</b> 26.50	Aug 19 1955
INSTANTANEOUS LOW FLOW			19	Sep 21	3.9	Sep 2 1999
10 PERCENT EXCEEDS	1030		677		1210	
50 PERCENT EXCEEDS	215		147		368	
90 PERCENT EXCEEDS	72		49		84	

**a** From rating curve extended above 2,500 ft<sup>3</sup>/s on basis of computation of flow over dam at gage heights, 17.28 and 19.45 ft and slope-area measurement of peak flow.

**b** From floodmarks.



## THAMES RIVER BASIN

## 01125500 QUINEBAUG RIVER AT PUTNAM, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Chemical analyses available for water years 1955, 1957-1958, 1959, 1960, 1962, 1970, 1972, January 1999 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 07...	1225	91	222	7.2	14.5	10.0	2.8	12.1	109	1.8	200	31	35
JAN 23...	1045	125	323	7.3	10.0	2.5	2.2	14.8	109	1.4	128	34	41
MAR 12...	1130	363	219	7.0	8.0	6.5	1.7	13.4	109	1.4	45	20	32
MAY 08...	1130	553	182	7.2	24.0	17.0	3.8	9.9	103	1.4	29	27	28
JUN 19...	1130	687	174	7.1	26.5	19.5	3.1	9.4	102	--	1080	60	26
JUL 23...	1000	81	258	7.1	31.0	25.0	4.9	8.5	104	1.7	107	132	40
AUG 21...	0845	46	260	7.8	24.0	22.5	19	8.6	99	3.7	420	800	42
SEP 04...	0930	51	268	7.7	22.0	20.0	59	9.3	103	7.1	2700	4100	33
Date	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 07...	10.6	2.18	0	34	28	41.7	124	<10	<.008	.778	E.02	--	.50
JAN 23...	12.3	2.60	0	29	24	69.7	184	<10	.024	.829	.05	.30	.36
MAR 12...	9.35	2.15	0	20	16	46.6	131	<10	E.006	.407	<.04	--	.36
MAY 08...	8.16	1.91	0	14	11	39.8	100	<10	<.008	.240	<.04	--	.41
JUN 19...	7.43	1.71	0	16	13	32.9	110	<10	E.006	.451	<.04	--	.50
JUL 23...	11.6	2.65	0	34	28	49.5	145	<10	E.007	.574	E.03	--	.63
AUG 21...	12.5	2.57	0	34	28	45.5	134	<10	<.008	.111	<.04	--	1.1
SEP 04...	9.61	2.25	0	33	27	48.7	145	25	E.004	.244	<.04	--	1.7
Date	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV 07...	.36	1.3	.091	.057	.04	<30	11	.27	E1	9.4	11	<.06	<.1
JAN 23...	--	1.2	.08	--	--	40	16	.13	M	12.7	13	<.06	E.1
MAR 12...	--	.77	E.05	--	--	80	21	<.05	<2	11.7	11	<.06	<.1
MAY 08...	--	.66	E.04	--	--	90	23	.10	<2	12.0	11	<.06	E.1
JUN 19...	--	.95	E.06	--	--	130	29	.09	M	12.0	11	<.06	E.1
JUL 23...	--	1.2	E.05	--	--	50	13	.36	E1	14.3	13	<.06	<.1
AUG 21...	--	1.2	.10	--	--	100	19	.52	E2	16.0	11	<.06	E.1
SEP 04...	--	1.9	.18	--	--	290	43	.69	E2	9.5	11	<.06	.2

## 01125500 QUINEBAUG RIVER AT PUTNAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
NOV 07...	E.02	2.1	2.6	.08	2.5	1.9	150	166	M	.50	21.8	24.1	<.01
JAN 23...	.06	1.0	1.1	.11	2.1	2.2	420	249	1	.30	54.1	48.3	<.01
MAR 12...	.04	.8	<.8	.11	1.9	1.4	350	155	1	.39	62.8	48.9	E.01n
MAY 08...	E.02	1.1	<.8	.11	3.9	1.8	460	201	<1	.49	75.6	46.0	E.01n
JUN 19...	E.03	1.3	E.5	.10	3.6	1.5	810	426	3	.93	69.7	37.2	.01
JUL 23...	E.04	2.4	2.0	.14	2.6	2.2	520	178	2	.52	111	37.4	<.01
AUG 21...	E.04	2.7	2.5	.15	2.7	1.9	960	164	3	.32	281	6.2	<.01
SEP 04...	E.02	1.7	<.8	.21	3.3	2.1	70	76	6	.28	325	16.0	.01

Date	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
NOV 07...	.4	<2.0	.68	<.3	<1	<20	2	.03
JAN 23...	.8	<2.0	.76	<.3	<1	<20	5	.03
MAR 12...	.2	<2.0	.52	<.3	<1	<20	3	.04
MAY 08...	E.1	3.3	.76	<.3	<1	<20	3	.04
JUN 19...	E.1	E1.1	.78	<.3	<1	<20	7	.04
JUL 23...	1.0	E1.1	1.07	<.3	<1	E10	3	.03
AUG 21...	.8	E1.3	.99	<.3	<1	<20	1	.04
SEP 04...	1.1	2.7	1.07	<.3	<1	<20	2	.09

Value qualifier codes used in this report:  
n -- Below the NDV

## THAMES RIVER BASIN

## 01125520 QUINEBAUG RIVER AT COTTON ROAD BRIDGE NEAR POMFRET LANDING, CT

**LOCATION.**--Lat 41°51'30", long 71°55'28", Windham County, Hydrologic Unit 01100001, at bridge on Cotton Rd. 1.5 mi northwest of Rogers.

**DRAINAGE AREA.**--342 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water years 1974-80, March 1995 to current year.

**REVISED RECORDS.**--WDR CT-74-80, 1995: Drainage area.

**REMARKS.**--Water-quality records for this site were published under station number 01125720 for water years 1974-80, March 1995 to September 30, 1995. This changes the drainage area from 376 mi<sup>2</sup> to 342 mi<sup>2</sup>. Discharge for this location is computed by determining discharge at station 01125500 and adjusting that discharge by multiplying by a factor of 1.04.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	
NOV 07...	1450	120	242	7.5	12.0	9.0	2.5	11.5	100	1.4	164	38	34	
JAN 23...	1310	130	325	7.5	8.5	1.5	2.7	13.9	99	1.2	65k	900	44	
MAR 12...	1500	378	229	6.6	7.5	6.5	1.7	13.4	109	1.4	920	152	33	
MAY 08...	1330	566	197	7.3	21.5	18.0	3.5	10.6	113	1.4	108	136	30	
JUN 19...	1500	710	177	7.2	23.5	21.0	4.2	9.5	107	--	5400	38k	28	
JUL 23...	1230	81	284	7.2	31.5	25.5	3.4	7.3	90	1.5	54k	43	47	
AUG 21...	1130	48	318	7.6	24.0	23.0	11	8.9	99	3.5	108	14k	60	
SEP 04...	1200	55	292	7.2	24.0	20.5	38	10.1	115	8.6	520	300k	51	
Date		CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT CO3 (00452)	BICAR-BONATE WATER DIS IT MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD CAC03 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV 07...	10.4	1.88	--	--	0	33	27	--	45.8	--	--	--	134	<10
JAN 23...	13.4	2.56	41.3	4.47	0	31	26	11.1	73.4	E.1n	6.46	192	<10	
MAR 12...	9.88	2.14	25.9	2.81	0	18	15	10.5	48.4	<.1	4.72	128	<10	
MAY 08...	8.84	1.91	22.0	2.39	0	14	12	9.7	42.3	<.1	2.95	112	<10	
JUN 19...	8.22	1.71	18.7	2.17	0	17	14	7.8	34.3	E.1	4.93	105	<10	
JUL 23...	14.5	2.67	32.9	4.68	0	33	27	11.1	55.8	.1	2.98	147	<10	
AUG 21...	20.0	2.53	29.6	7.33	0	29	24	11.9	64.9	E.1n	4.27	193	<10	
SEP 04...	16.2	2.54	30.8	5.21	0	35	29	13.5	55.7	E.1n	5.37	163	51	
Date		SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
NOV 07...	--	<.008	.879	E.03	--	.51	.38	1.4	.100	.070	.05	40	6	
JAN 23...	190	.016	.970	.19	.38	.56	.51	1.5	.113	.092	.07	50	14	
MAR 12...	128	.012	.439	<.04	--	.40	.28	.84	.093	.030	E.01	80	22	
MAY 08...	101	<.008	.295	<.04	--	.47	.32	.76	.058	.022	<.02	110	26	
JUN 19...	118	E.005	--	<.04	--	.45	.35	--	.069	.034	E.02	130	27	
JUL 23...	165	.010	.798	E.03	--	.60	.41	1.4	.083	.046	.02	60	11	
AUG 21...	192	<.008	.638	<.04	--	.74	.34	1.4	.098	.015	<.02	60	10	
SEP 04...	202	E.007	.530	<.04	--	2.6	.37	3.2	.37	.024	E.01	450	19	

## 01125520 QUINEBAUG RIVER AT COTTON ROAD BRIDGE NEAR POMFRET LANDING, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
NOV 07...	.24	E1	12.6	11	<.06	<.1	E.02	1.6	1.5	.08	2.7	1.7	340
JAN 23...	.14	<2	13.9	14	<.06	<.1	.06	1.2	1.2	.11	6.9	2.6	390
MAR 12...	<.05	<2	11.3	12	<.06	<.1	E.03	E.7	<.8	.11	1.5	1.3	340
MAY 08...	.10	<2	12.1	11	<.06	<.1	<.04	1.4	<.8	.10	3.6	1.9	500
JUN 19...	.09	<2	12.2	11	<.06	E.1	E.03	1.1	E.4	.09	2.5	1.5	810
JUL 23...	.38	E1	17.9	17	<.06	<.1	E.04	1.6	1.3	.18	3.1	2.1	430
AUG 21...	1.05	E2	25.0	23	<.06	<.1	.04	2.3	1.7	.17	2.5	2.0	590
SEP 04...	.59	4	41.0	17	<.06	.3	E.03	5.3	1.3	.20	5.4	2.2	2790

Date	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV 07...	129	2	.38	48.0	20.7	<.01	.6	<2.0	.62	<.3	<1	<20	2
JAN 23...	212	2	.34	54.5	47.2	E.01n	.7	<2.0	.62	<.3	<1	<20	6
MAR 12...	155	1	.40	61.0	46.7	E.01n	.3	<2.0	.52	<.3	<1	<20	3
MAY 08...	196	<1	.53	74.4	36.2	E.01n	.2	2.8	.74	<.3	<1	<20	2
JUN 19...	443	3	.93	67.4	29.5	.01	E.2	<2.0	.72	<.3	<1	<20	3
JUL 23...	94	1	.30	122	73.0	<.01	1.6	E1.5	1.24	<.3	<1	E20	3
AUG 21...	81	2	.24	177	29.8	<.01	1.5	E1.0	1.10	<.3	<1	<20	3
SEP 04...	65	13	.20	1050	38.7	.02	1.1	3.1	1.09	<.3	<1	<20	2

Date	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
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NOV 07...	.02	6.1
JAN 23...	.03	4.8
MAR 12...	.03	5.5
MAY 08...	.04	6.4
JUN 19...	.04	5.7
JUL 23...	.03	6.4
AUG 21...	.03	8.1
SEP 04...	.05	20.3

Value qualifier codes used in this report:

k -- Counts outside acceptable range  
n -- Below the NDV

## THAMES RIVER BASIN

## 01127000 QUINEBAUG RIVER AT JEWETT CITY, CT

**LOCATION.**--Lat 41°35'52", long 71°59'05", New London County, Hydrologic Unit 01100001, on left bank behind high school on Slater Avenue at Jewett City, 570 ft downstream from outlet of canal from Wedgewood Mills at mouth of Pachaug River, 1,000 ft downstream from railroad bridge and at mile 6.1.

**DRAINAGE AREA.**--713 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--July 1918 to current year.

**REVISED RECORDS.**--WSP 781: Drainage area. WSP 1301: 1919-26 (M). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 63.07 ft above sea level. Satellite telemetry at station.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by East Brimfield, Westville, West Thompson, Hodges Village, and Buffumville Reservoirs, by Lake Chaubunagungamaug, estimated usable capacity 207,000,000 ft<sup>3</sup>, and by smaller reservoirs upstream and by hydropower plant upstream.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 4,510 ft<sup>3</sup>/s, May 15, gage height, 10.55 ft; minimum discharge, 28 ft<sup>3</sup>/s, Nov. 25, gage height, 3.70 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	414	174	244	308	511	532	2030	1670	1190	440	195	114
2	366	166	240	298	623	463	2370	1410	1260	411	133	381
3	471	285	156	256	645	1040	2150	1690	1160	253	233	183
4	406	281	199	260	612	1430	2130	1810	943	387	236	366
5	353	285	231	238	448	1540	1810	1610	815	246	113	311
6	290	220	225	244	558	1120	1480	1410	1190	270	285	277
7	183	230	228	408	484	1070	1360	1210	2490	346	150	135
8	231	326	114	394	473	898	1280	1110	2880	220	120	126
9	106	323	240	275	467	836	1230	1020	2710	239	102	235
10	154	260	231	395	382	866	1150	872	2350	296	101	116
11	212	266	236	412	604	1090	1130	886	1620	305	101	109
12	189	216	229	385	694	974	968	880	1440	230	105	101
13	215	286	228	525	638	817	840	1120	1430	110	104	101
14	181	207	237	557	542	956	938	3590	1210	222	107	102
15	322	287	307	651	560	773	988	4240	1270	158	104	70
16	122	146	308	621	526	720	954	3220	1370	189	101	406
17	163	224	239	535	509	760	942	2580	1350	226	105	348
18	243	217	524	477	501	763	839	2910	1390	172	102	295
19	465	190	701	476	473	773	877	3850	1410	154	102	275
20	307	97	546	439	465	878	766	3360	1330	237	103	138
21	278	210	470	441	597	1100	775	2780	1140	228	103	247
22	252	211	418	424	645	1360	738	2230	996	219	110	124
23	250	99	387	440	604	1190	809	1780	877	232	94	136
24	247	208	529	490	537	1120	887	1650	769	233	101	129
25	249	197	599	572	521	1070	750	1440	736	221	101	238
26	234	198	526	619	519	930	991	1280	738	106	99	122
27	224	263	485	550	533	1640	1120	1180	662	227	89	327
28	181	263	443	492	560	2360	1100	1090	559	216	67	443
29	195	247	345	474	---	2090	1590	1120	475	240	125	412
30	187	243	350	491	---	1700	1730	1080	475	115	275	276
31	194	---	273	514	---	1670	---	965	---	206	236	---
TOTAL	7884	6825	10488	13661	15231	34529	36722	57043	38235	7354	4102	6643
MEAN	254	228	338	441	544	1114	1224	1840	1274	237	132	221
MAX	471	326	701	651	694	2360	2370	4240	2880	440	285	443
MIN	106	97	114	238	382	463	738	872	475	106	67	70

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2002, BY WATER YEAR (WY)

	MEAN	655	1060	1463	1594	1665	2533	2423	1517	1015	550	484	508
MAX	3279	3443	4447	5694	3919	6930	5519	2842	4758	4110	3918	3502	
(WY)	1956	1956	1997	1979	1970	1936	1987	1989	1982	1938	1955	1938	
MIN	132	189	281	219	473	1114	854	620	235	122	98.4	97.4	
(WY)	1931	1966	1931	1981	1980	2002	1966	1930	1999	1995	1957	1957	



## 01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

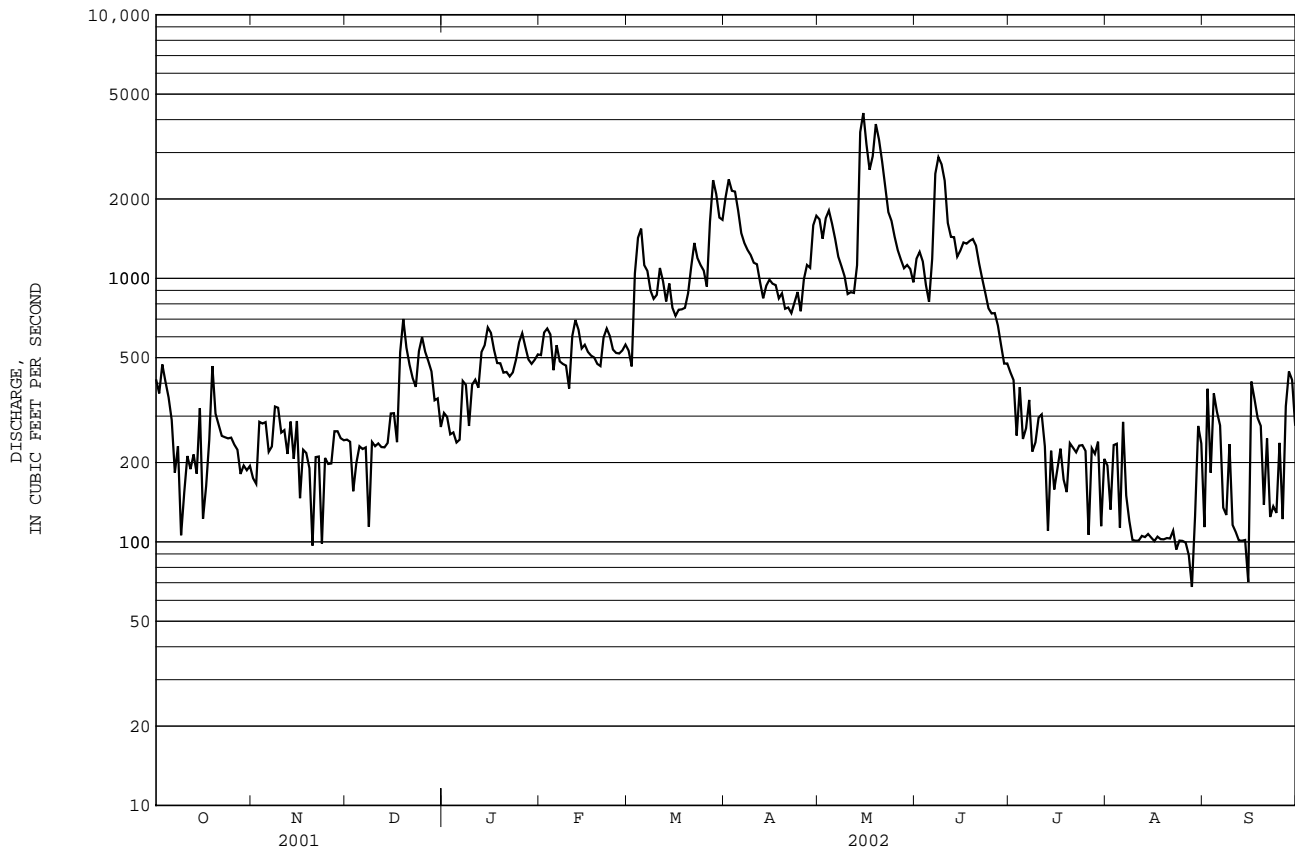
SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1919 - 2002	
ANNUAL TOTAL	384532			238717			1287	
ANNUAL MEAN	1054			654			2015	1984
HIGHEST ANNUAL MEAN							598	1930
LOWEST ANNUAL MEAN							598	1930
HIGHEST DAILY MEAN	9110	Mar 31		4240	May 15		35300	Aug 20 1955
LOWEST DAILY MEAN	97	Nov 20		67	Aug 28		a18	Aug 28 1949
ANNUAL SEVEN-DAY MINIMUM	125	Sep 8		94	Aug 22		52	Aug 31 1995
MAXIMUM PEAK FLOW				4510	May 15		b40700	Aug 20 1955
MAXIMUM PEAK STAGE				10.55	May 15		c29.00	Aug 20 1955
INSTANTANEOUS LOW FLOW				28	Nov 25		d16	Sep 25 1948
10 PERCENT EXCEEDS	2630			1430			2780	
50 PERCENT EXCEEDS	575			414			906	
90 PERCENT EXCEEDS	182			121			230	

a Also occurred on Dec. 11, 1949.

b From rating curve extended above 11,000 ft<sup>3</sup>/s by computation of peak flows over three nearby dams at gage. heights 21.7 ft, 22.5 ft, 24.0 ft, and 29.0 ft.

c From floodmarks.

d Also occurred on Nov. 18, 1950.



## THAMES RIVER BASIN

## 01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1956, 1968 to current year.

PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1990.

WATER TEMPERATURES: October 1955 to September 1956, October 1968 to September 1990.

INSTRUMENTATION.--Temperature recorder Oct. 1, 1968, to Sept. 30, 1974. Water-quality monitor October 1974 to September 1990.

EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 309 microsiemens July 23, 1975; minimum, 42 microsiemens June 14, 1975, March 23, 1980, July 27-28, 1990.

WATER TEMPERATURES: Maximum, 32.5°C Aug. 2, 1975, May 8, 1977; minimum, 0.0°C on many days during winter period.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 08...	1155	214	146	7.2	11.5	11.0	2.4	12.3	111	228	131	31	9.30	
JAN 09...	1050	137	162	7.1	4.0	3.0	1.7	14.4	108	144	164	35	10.4	
MAR 13...	1120	1060	143	7.0	6.0	6.5	1.8	11.8	96	460	204	26	7.52	
MAY 15...	1015	4350	112	6.8	14.0	12.5	4.2	9.9	93	860	400	19	5.56	
JUN 20...	1015	1340	133	7.1	25.0	20.5	3.2	8.8	98	236	216	24	7.05	
JUL 22...	1000	107	193	7.1	26.0	24.0	2.8	6.9	82	58	108	37	11.1	
AUG 19...	0845	103	243	7.5	26.0	26.0	5.3	5.9	73	212	400	45	13.6	
SEP 03...	0815	189	149	6.8	19.0	20.0	7.5	8.0	88	216	120	32	9.21	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 08...	1.98	13.6	3.27	0	32	26	8.7	22.7	.1	2.33	86	90	E.004	
JAN 09...	2.21	15.9	2.91	0	24	20	11.2	28.6	<.1	6.33	104	108	.018	
MAR 13...	1.76	13.7	1.94	0	16	13	9.5	25.0	E.1n	5.49	92	86	.013	
MAY 15...	1.32	10.9	1.67	0	12	10	7.4	19.1	E.1n	4.07	69	86	<.008	
JUN 20...	1.58	12.8	1.91	0	17	14	7.2	21.9	E.1n	5.02	85	86	.012	
JUL 22...	2.32	18.7	3.46	0	29	24	10.4	31.9	E.1	2.78	111	110	.012	
AUG 19...	2.68	25.2	5.22	0	38	31	13.3	40.2	E.11n	3.86	133	136	E.007	
SEP 03...	2.09	13.3	2.99	0	26	21	8.2	21.6	E.1n	3.09	82	82	E.004	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	
NOV 08...	.34	.04	.43	.47	.34	.80	.035	.013	<.02	13	.17	10	<.06	
JAN 09...	.75	.08	.34	.42	.37	1.2	.048	.035	.03	19	.11	10	<.06	
MAR 13...	.37	E.03	--	.41	.34	.78	.051	.027	E.01	31	.09	9	<.06	
MAY 15...	.24	E.02	--	.49	.38	.73	.065	.024	E.01	59	.05	10	<.06	
JUN 20...	.45	.05	.48	.53	.37	.98	.092	.048	.03	33	.15	11	<.06	
JUL 22...	.36	.06	.46	.52	.42	.88	.079	.056	.04	15	.27	14	<.06	
AUG 19...	.29	E.04	--	.75	.39	1.0	.120	.073	.05	19	.36	14	<.06	
SEP 03...	.10	E.03	--	.57	.33	.68	.080	.034	.02	10	.24	10	<.06	

## 01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 08...	<.04	<.8	.06	.9	170	.26	12.4	.3	.37	<1	1	.03	6.7
JAN 09...	<.04	<.8	.07	1.2	226	.31	14.7	.3	.40	<1	3	.03	4.8
MAR 13...	<.04	<.8	.08	1.0	130	.18	35.8	E.2	.32	<1	3	.03	5.7
MAY 15...	<.04	<.8	.10	1.3	215	.49	27.9	E.2	.63	<1	3	.05	8.1
JUN 20...	<.04	<.8	.08	1.3	344	.70	27.8	.3	.54	<1	3	.05	7.1
JUL 22...	<.04	<.8	.12	1.4	203	.34	26.8	.7	.72	<1	2	.03	5.4
AUG 19...	E.02	1.1	.16	1.6	70	.10	46.1	1.1	.92	<1	3	.04	7.0
SEP 03...	<.04	<.8	.08	.9	151	.15	7.6	.6	.24	<1	2	.02	6.3

Value qualifier codes used in this report:  
n -- Below the NDV

## THAMES RIVER BASIN

## 01127500 YANTIC RIVER AT YANTIC, CT

**LOCATION.**--Lat 41°33'31", long 72°07'19", New London County, Hydrologic Unit 01100003, on left bank at Yantic, 700 ft downstream from stone-arch highway bridge, 1 mi downstream from Susquetonscut Brook, and 4.8 mi upstream from mouth.

**DRAINAGE AREA.**--89.3 mi<sup>2</sup>.

**PERIOD of RECORD.**--Discharge: October 1930 to current year.

Water-quality records: Water years 1958, 1968-80.

Daily suspended-sediment discharge: Water years 1975-80.

**REVISED RECORDS.**--WSP 1051: 1931-36. WSP 1301: 1934 (M). WDR CT-78-1: 1970-77 (P). WDR CT-82-1: 1979-80 (P). WDR CT-83-1: Drainage area, 1979 (P), 1982 (P).

**GAGE.**--Water-stage recorder. Datum of gage is 94.46 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Low flow regulated by mills upstream. City of Norwich automated flood warning system is on site. Satellite telemetry at station.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 1,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
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No peak greater than base discharge.

Minimum discharge, 5.0 ft<sup>3</sup>/s, Aug. 28, 29, gage height, 0.78 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	29	20	e21	53	52	247	201	141	32	9.7	11
2	80	29	18	e20	67	48	215	180	110	28	18	41
3	46	30	17	e19	e46	406	164	249	79	25	30	48
4	32	31	16	e18	e42	354	167	181	64	22	19	104
5	26	31	16	e19	e36	183	146	140	68	19	15	65
6	50	29	16	21	36	125	127	116	90	16	12	34
7	48	29	16	53	35	104	110	101	408	15	9.7	23
8	44	28	16	44	36	88	99	90	328	14	8.6	17
9	42	29	22	38	35	80	96	80	198	14	7.9	14
10	42	32	27	38	34	142	110	80	135	16	7.5	12
11	42	29	26	43	99	128	99	70	98	14	7.0	12
12	41	27	26	53	e70	101	90	69	81	11	6.7	9.2
13	40	27	24	69	e50	89	87	285	76	12	6.4	8.9
14	40	27	24	e74	e44	88	96	883	78	11	6.2	8.5
15	43	27	33	e60	e42	79	97	494	130	9.6	6.3	11
16	44	25	30	e55	46	78	95	295	166	9.8	5.9	71
17	42	19	26	e50	49	75	87	216	217	9.4	5.9	44
18	39	15	74	e44	58	76	78	529	134	9.0	5.6	24
19	38	16	78	e40	52	90	76	580	96	9.2	5.6	17
20	43	16	56	e38	48	122	87	346	101	13	7.1	14
21	43	16	42	e40	90	244	80	247	87	12	6.0	14
22	42	15	34	e42	84	195	81	198	99	9.6	5.9	16
23	42	15	29	e44	68	135	117	167	131	14	6.1	41
24	41	15	74	83	56	109	101	143	91	32	5.6	50
25	41	17	77	97	50	92	93	120	69	17	5.8	34
26	38	28	57	75	49	90	169	108	55	13	5.4	26
27	37	26	e45	62	54	409	132	101	48	11	5.4	107
28	36	20	e33	54	60	324	160	102	45	12	5.1	141
29	37	19	e28	51	---	197	308	103	39	14	17	78
30	30	18	e26	50	---	152	222	90	35	13	12	49
31	29	---	e22	49	---	135	---	85	---	11	14	---
TOTAL	1343	714	1048	1464	1489	4590	3836	6649	3497	467.6	288.4	1144.6
MEAN	43.3	23.8	33.8	47.2	53.2	148	128	214	117	15.1	9.30	38.2
MAX	105	32	78	97	99	409	308	883	408	32	30	141
MIN	26	15	16	18	34	48	76	69	35	9.0	5.1	8.5
CFSM	0.49	0.27	0.38	0.53	0.60	1.66	1.43	2.40	1.31	0.17	0.10	0.43
IN.	0.56	0.30	0.44	0.61	0.62	1.91	1.60	2.77	1.46	0.19	0.12	0.48

STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002, BY WATER YEAR (WY)

MEAN	80.8	145	201	231	237	343	294	179	115	51.7	44.4	53.9
MAX	676	498	660	1130	531	782	886	409	892	553	245	718
(WY)	1956	1956	1973	1979	1970	1936	1983	1989	1982	1938	1955	1938
MIN	8.15	19.8	28.5	38.7	53.2	137	80.7	56.3	16.3	7.05	5.85	5.83
(WY)	1942	1966	1944	1966	2002	1981	1985	1986	1964	1991	1957	1957

e Estimated.

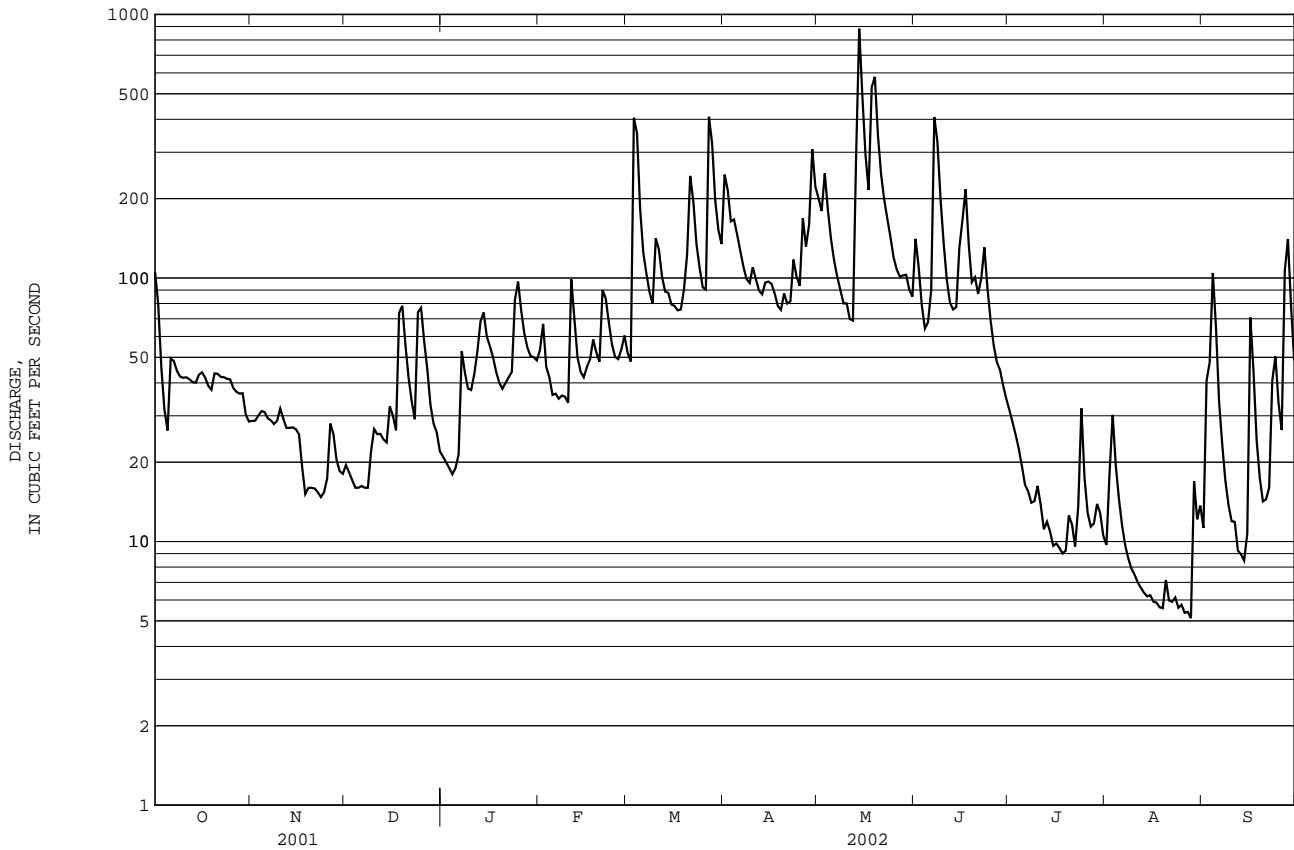
THAMES RIVER BASIN

91

01127500 YANTIC RIVER AT YANTIC, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1931 - 2002	
ANNUAL TOTAL	52131.9		26530.6		164	
ANNUAL MEAN	143		72.7		281	
HIGHEST ANNUAL MEAN					71.7	
LOWEST ANNUAL MEAN					281	
HIGHEST DAILY MEAN	2880	Mar 22	883	May 14	8690	Jun 6 1982
LOWEST DAILY MEAN	6.1	Sep 13	5.1	Aug 28	2.3	Aug 30 1963
ANNUAL SEVEN-DAY MINIMUM	6.5	Sep 7	5.6	Aug 22	3.0	Aug 30 1963
MAXIMUM PEAK FLOW			995	May 14	a13500	Sep 21 1938
MAXIMUM PEAK STAGE			5.66	May 14	b14.66	Sep 21 1938
INSTANTANEOUS LOW FLOW			c5.0	Aug 28	2.2	Aug 30 1963
ANNUAL RUNOFF (CFSM)	1.60		0.81		1.84	
ANNUAL RUNOFF (INCHES)	21.72		11.05		25.01	
10 PERCENT EXCEEDS	340		155		363	
50 PERCENT EXCEEDS	55		43		94	
90 PERCENT EXCEEDS	15		11		13	

- a From computation of flow over two dams 2.4 mi. upstream and 3.0 mi. downstream, respectively.  
b A slightly higher gage height of 14.88 ft. occurred on June 6, 1982 due to reconstruction of the river bank following the flood of 1938.  
c Also occurred on Aug. 29.



## THAMES RIVER BASIN

## RESERVOIRS IN THAMES RIVER BASIN

- 01119259 STAFFORDVILLE RESERVOIR.**--Lat 41°59'46", long 72°15'37", Tolland County, Conn. , Hydrologic Unit 01100002 on Furnace Brook in Willimantic River basin, at Staffordville. Drainage area, 8.34 mi<sup>2</sup>. Usable capacity, 75,500,000 ft<sup>3</sup>, based on reservoir survey by Connecticut Board of Fisheries and Game. Records available, September 1960 to 1992. Dam was built after 1886 flood for storage of water for power and industrial supply.
- 01121500 MANSFIELD HOLLOW LAKE.**--Lat 41°45'22", long 72°10'57", Tolland County, Conn., Hydrologic Unit 01100002, on Natchaug River at Mansfield Hollow, 3.5 mi northeast of Willimantic. Drainage area, 160 mi<sup>2</sup>. Usable capacity, 2,260,000,000 ft<sup>3</sup>, including 90,000,000 ft<sup>3</sup> storage in recreation pool. Records available, March 1952 to current year. Completed in 1952 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.
- 01123350 EAST BRIMFIELD LAKE.**--Lat 42°06'32", long 72°07'35", Worcester County, Mass., Hydrologic Unit 01100001, on Quinebaug River, 0.7 mi southeast of Fiskdale, 1.2 mi east of East Brimfield. Drainage area, 67.5 mi<sup>2</sup>. Usable capacity, 1,400,000,000 ft<sup>3</sup>, including 83,000,000 ft<sup>3</sup> storage in recreation and conservation. Records available, July 1960 to current year. Completed in 1960 by Corps of Engineers for storage of water for recreation, conservation, and flood control. Records furnished by Corps of Engineers.
- 01123550 WESTVILLE LAKE.**--Lat 42°04'55", long 72°03'28", Worcester County, Mass., Hydrologic Unit 01100001, on Quinebaug River, 1.3 mi west of Southbridge. Drainage area, 99.1 mi<sup>2</sup>. Usable capacity, 484,000,000 ft<sup>3</sup>, including 4,400,000 ft<sup>3</sup> storage in recreation pool. Records available, February 1962 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.
- 01124150 WEST THOMPSON LAKE.**--Lat 41°56'40", long 71°54'00", Windham County, Conn. , Hydrologic Unit 01100001, on Quinebaug River above mouth of French River, at West Thompson. Drainage area, 172 mi<sup>2</sup>. Usable capacity, 1,170,000,000 ft<sup>3</sup>, including 52,000,000 ft<sup>3</sup> storage in recreation pool. Records available, July 1965 to current year. Completed in 1965 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.
- 01124300 HODGES VILLAGE RESERVOIR.**--Lat 42°07'09", long 71°52'51", Worcester County, Mass. , Hydrologic Unit 01100001, on French River at Hodges Village. Drainage area, 31.0 mi<sup>2</sup>. Usable capacity, 577,000,000 ft<sup>3</sup>. Records available, February 1960 to current year. Completed in 1960 by Corps of Engineers for storage of water for flood control. Records furnished by Corps of Engineers.
- 01124400 BUFFUMVILLE LAKE.**--Lat 42°06'58", long 71°54'29", Worcester County, Mass. , Hydrologic Unit 01100001, on Little River in French River basin, at Buffumville, 2.2 mi west of Oxford. Drainage area, 26.5 mi<sup>2</sup>. Usable capacity, 555,000,000 ft<sup>3</sup>, including 61,000,000 ft<sup>3</sup> storage in recreation pool. Records available, September 1958 to current year. Completed in 1958 by Corps of Engineers for storage of water for recreation and flood control. Records furnished by Corps of Engineers.

## Science Challenge

On average, how much water is used worldwide each day?

Find more earth science information on our website at <http://www.usgs.gov>

About 400 billion gallons a day.

## CONNECTICUT RIVER BASIN

## 01172003 CONNECTICUT RIVER BELOW HOLYOKE DAM AT HOLYOKE, MA

**LOCATION.**--Lat 42°12'36", long 72°35'44", Hampden County, Hydrologic Unit 01080201, on right bank, 2,200 ft downstream from dam of Holyoke Water Power Co. in Holyoke, Mass. and at mile 86.

**DRAINAGE AREA.**--8,309 mi<sup>2</sup>.

**PERIOD OF RECORD.**--December 1983 to current year.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 43.276 ft above sea level. Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--No estimated daily discharges. Records fair. Flow regulated by powerplants, by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and other reservoirs, combined usable capacity, about 47 billion ft<sup>3</sup>. Records do not include water diverted around gage by Holyoke Water Power Company for industrial use.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum discharge since at least 1854, 244,000 ft<sup>3</sup>/s, March 20, 1936, gage height, 35.0 ft, from floodmarks.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 68,200 ft<sup>3</sup>/s, Apr. 17, gage height, 15.37 ft; minimum discharge, 80 ft<sup>3</sup>/s, Oct. 20, gage height, 1.46 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2250	2620	6080	2720	9450	12500	32700	22100	13000	13800	4430	1610
2	701	2130	6310	4030	7310	11400	42000	21200	15100	10600	5300	3240
3	569	2990	6390	6280	7460	11800	41400	22500	17600	10700	3110	2110
4	678	1600	6580	5600	7530	12500	34500	23600	15600	10600	2640	1470
5	2050	3410	6750	5190	7540	16700	35600	20000	15200	5630	5480	1120
6	2060	3190	6480	4650	8130	16700	31100	19500	13900	6040	5240	915
7	1750	1080	4550	4130	7300	11000	26200	16500	23200	4840	3110	1490
8	2100	6760	4600	4610	6270	9960	21300	14500	22900	6050	2160	870
9	829	5240	3990	3760	4480	8700	16500	13700	17800	6770	1500	1250
10	2270	3620	4280	4660	3980	11000	16500	13900	14200	8240	1920	2840
11	1510	1740	3130	4490	5000	26400	25800	12200	10300	7640	1820	2410
12	2190	3750	2230	4210	9460	30300	26600	12100	12200	4970	2330	1380
13	2180	4070	3490	3690	6470	25200	22600	12900	20100	4520	2830	1940
14	1570	2690	4470	3620	9630	17800	32000	36900	39000	2980	3940	1530
15	2070	1160	5730	5870	7870	17500	55200	48500	43300	3730	3060	1930
16	546	1330	9040	5320	6610	17800	63200	42500	37800	3260	1860	1840
17	695	989	6330	4570	5570	14900	63100	34000	31200	4340	2440	2980
18	578	1720	6230	4540	6860	14500	57200	29400	22600	5540	2540	3230
19	675	1820	5940	4150	8100	13600	53400	33600	15400	4480	1460	2430
20	1470	3110	3900	3240	8680	11500	48400	33900	13100	4190	2030	2520
21	726	4380	4520	3790	9120	11500	41300	29400	12600	6170	1550	1710
22	3090	3070	3720	3920	8940	9910	35900	24400	11400	7210	1020	1820
23	2870	1640	3830	3880	10100	10000	28700	21700	11700	7330	1710	2930
24	3020	2430	5740	2960	11600	9040	20100	15300	13500	4190	1320	2630
25	4220	2900	4360	3720	11200	9500	18900	13300	14700	1710	1610	2160
26	3660	2890	3230	3900	9750	11500	18600	13200	12400	1260	2370	4830
27	3490	4150	4560	6240	9450	13600	17000	12500	12700	1860	3380	4810
28	1570	4230	5290	5440	12000	18200	15600	11600	15600	1150	1640	5790
29	3780	5220	4250	5630	---	16000	18200	11900	18600	3820	842	4220
30	6090	7390	3250	7720	---	15300	20500	12300	15700	5450	956	4570
31	2370	---	3610	7790	---	23400	---	11400	---	3720	1420	---
TOTAL	63627	93319	152860	144320	225860	459710	980100	660500	552400	172790	77018	74575
MEAN	2052	3111	4931	4655	8066	14830	32670	21310	18410	5574	2484	2486
MAX	6090	7390	9040	7790	12000	30300	63200	48500	43300	13800	5480	5790
MIN	546	989	2230	2720	3980	8700	15600	11400	10300	1150	842	870

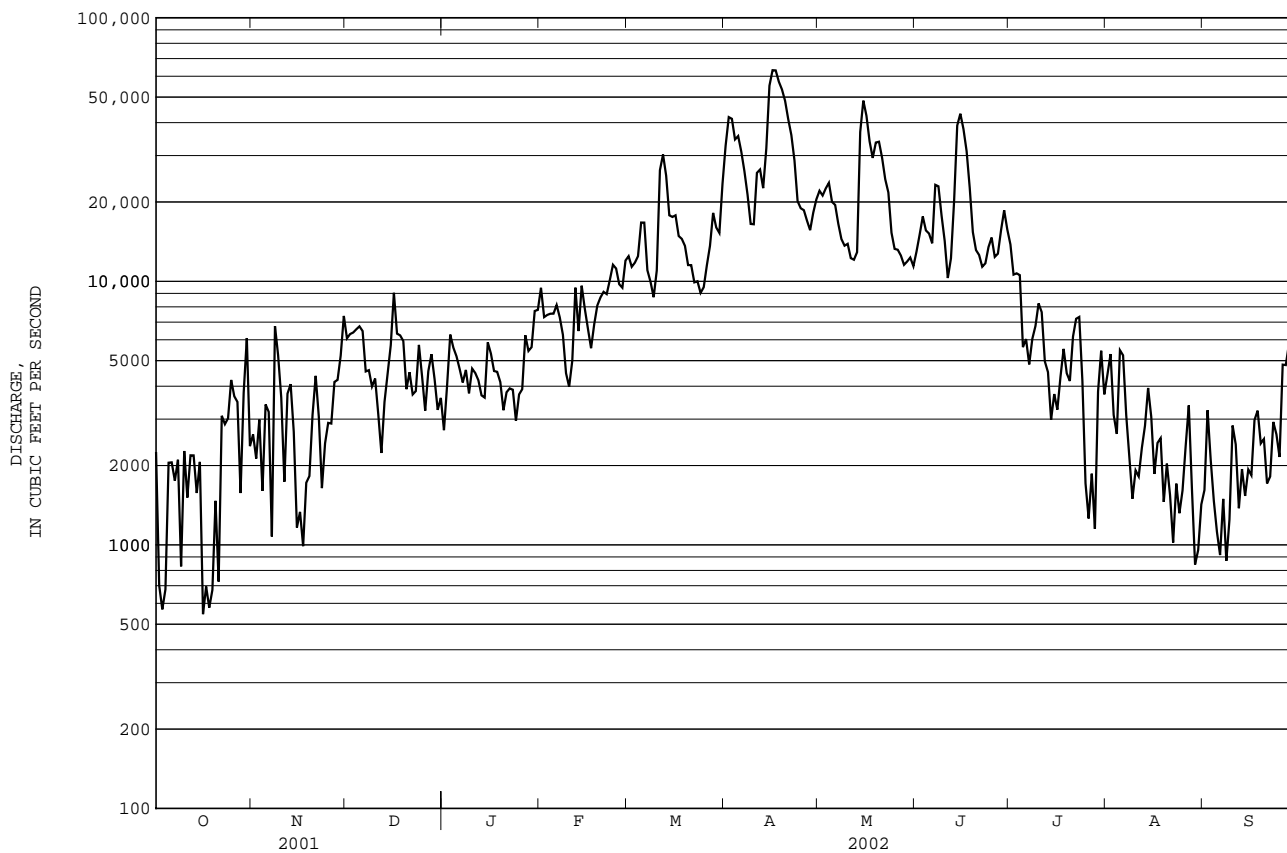
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

	MEAN	8636	11250	11120	10130	9689	17970	34580	17700	11000	6300	5320	4886
MAX	16340	25800	27410	23660	21890	34660	58300	40670	31100	16930	14780	13840	
(WY)	1991	1996	1997	1996	1984	1990	1993	1996	1984	1996	1990	1999	
MIN	1512	3111	4931	4655	4250	8080	10270	7366	4056	2578	1577	1378	
(WY)	1985	2002	2002	2002	1987	2001	1995	1987	1999	1991	2001	1984	



01172003 CONNECTICUT RIVER BELOW HOLYOKE DAM AT HOLYOKE, MA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1984 - 2002	
ANNUAL TOTAL	3534175				12320	
ANNUAL MEAN	9683				19030	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	86900	Apr 24	63200	Apr 16	145000	Jun 1 1984
LOWEST DAILY MEAN	465	Aug 12	546	Oct 16	465	Aug 12 2001
ANNUAL SEVEN-DAY MINIMUM	966	Oct 15	966	Oct 15	707	Sep 18 1984
MAXIMUM PEAK FLOW			68200	Apr 17	153000	Jun 1 1984
MAXIMUM PEAK STAGE			15.37	Apr 17	25.62	Jun 1 1984
INSTANTANEOUS LOW FLOW			80	Oct 20	80	Oct 20 2001
10 PERCENT EXCEEDS	17900				26500	
50 PERCENT EXCEEDS	5430				8200	
90 PERCENT EXCEEDS	1310				3030	



## CONNECTICUT RIVER BASIN

## 01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT

**LOCATION.**--Lat 41°59'14", long 72°36'21", Hartford County, Hydrologic Unit 01080205, on right bank just upstream from Enfield Dam, 1.0 mi downstream from Thompsonville, 3.0 mi downstream from Massachusetts-Connecticut State line, and at mile 63.6.

**DRAINAGE AREA.**--9,660 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--July 1928 to current year.

**REVISED RECORDS.**--WSP 741: 1932. WDR CT-77-1: 1976. WDR CT-83-1: Drainage area, 1982.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 38.48 ft above sea level. November 28, 1986 to August 2, 1990, recorder at site 200 ft downstream at datum 0.28 ft lower. Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow regulated by power plants, by diversion from Chicopee River Basin and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir, and other reservoirs, combined usable capacity, about 107 billion ft<sup>3</sup>.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 75,900 ft<sup>3</sup>/s, Apr. 17, gage height, 4.33 ft; minimum discharge, 1,050 ft<sup>3</sup>/s, Oct. 21, gage height, -2.46 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5300	4790	9480	4590	13100	18500	38900	28800	16000	19600	6520	4050
2	5180	4360	8240	4800	12200	16600	49200	28000	19300	14100	7880	5400
3	4210	4970	9030	8490	11700	18000	50000	29500	21500	13000	5600	5490
4	4670	3970	10400	8260	11800	18600	42000	30900	20800	12900	4420	3570
5	5440	4270	9770	7470	10300	21800	41400	26900	19700	9310	5740	4120
6	4980	7110	9450	7470	10500	23300	38400	25100	19900	7850	8160	3570
7	3220	2920	7540	6050	10300	17900	33100	23600	28700	7140	5830	4020
8	3570	7260	6270	e5800	9480	16100	28300	20300	32300	7930	3300	3520
9	3060	8330	6970	6140	7320	13600	22900	19000	25200	10300	3070	3080
10	3620	6720	6020	6400	6750	15600	21100	18800	20300	10900	2560	3780
11	2730	4460	5860	6760	7550	28200	29600	17500	15300	9910	2940	4020
12	3740	5180	4060	6590	13700	36200	33000	15600	15100	7310	3620	2850
13	3840	6520	4880	6100	10600	31700	28300	18000	21700	6510	3850	2870
14	3470	5520	6150	5390	12600	24600	34300	42000	41100	5210	5840	2780
15	4630	3870	7530	7190	11900	23000	59500	59300	49200	5240	5280	2940
16	4690	3730	11500	7810	9800	23600	70700	53300	44900	7410	3830	4030
17	4190	3190	9800	6480	9030	21300	72100	41800	38000	6590	3570	4300
18	4410	3330	9520	6660	8760	19700	65300	36700	30400	9240	4320	5030
19	3400	3320	9590	6030	11000	19900	61100	41300	21800	8690	2980	4710
20	3550	5130	8110	5570	12900	17400	56000	41100	19100	8010	3210	4420
21	1560	6250	7300	5430	13500	17900	48600	36700	16000	9160	2990	4470
22	3620	6180	6670	5860	12500	16100	41400	31200	15100	10300	2580	3510
23	4640	3640	6150	5780	15000	15600	35500	28000	14000	e10700	2850	4890
24	4070	4230	8300	5570	17100	15100	26300	22200	15200	e8330	2420	4770
25	5990	4920	7990	5730	17500	14000	24900	17800	18700	5930	2740	3610
26	5770	5200	6440	5660	16000	13800	24500	16200	14300	4950	3430	6090
27	5170	5840	6530	8770	15000	16300	23300	16000	14500	5370	4500	6760
28	3470	6430	7760	10300	17000	20600	21600	15400	17100	4040	3970	9470
29	4630	7310	7330	8130	---	21700	24300	16100	23400	5820	3380	6680
30	7790	9540	5960	10000	---	21600	26900	15200	20400	8220	3540	6560
31	5640	---	4130	11100	---	28600	---	e14400	---	7850	3930	---
TOTAL	134250	158490	234730	212380	334890	626900	1172500	846700	689000	267820	128850	135360
MEAN	4331	5283	7572	6851	11960	20220	39080	27310	22970	8639	4156	4512
MAX	7790	9540	11500	11100	17500	36200	72100	59300	49200	19600	8160	9470
MIN	1560	2920	4060	4590	6750	13600	21100	14400	14000	4040	2420	2780

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002, BY WATER YEAR (WY)

	MEAN	10090	14730	15570	14150	13660	25060	45330	27070	13900	7931	6976	7151
MAX	31730	33310	39000	30180	39100	89210	76050	51520	42600	28810	22530	42700	
(WY)	1978	1996	1997	1978	1981	1936	1960	1972	1984	1973	1955	1938	
MIN	2690	5015	5548	4311	4386	6965	14920	9611	4900	3202	2911	2719	
(WY)	1964	1965	1948	1931	1940	1940	1995	1941	1964	1962	1965	1964	

e Estimated.

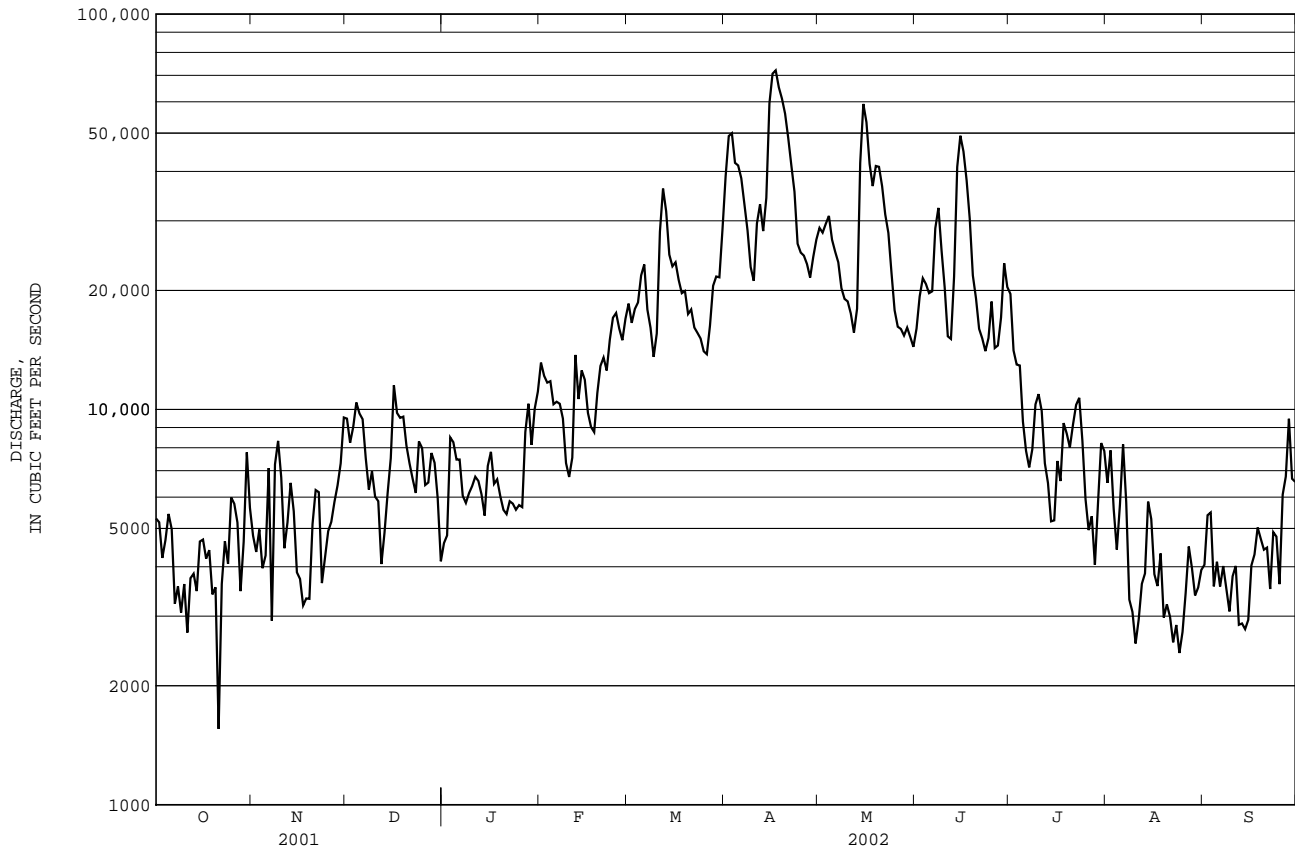
## CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1928 - 2002	
ANNUAL TOTAL	5062800		4941870		16780	
ANNUAL MEAN	13870		13540		24920	
HIGHEST ANNUAL MEAN					7847	
LOWEST ANNUAL MEAN					1996	
HIGHEST DAILY MEAN	103000	Apr 24	72100	Apr 17	278000	Mar 20 1936
LOWEST DAILY MEAN	1560	Oct 21	1560	Oct 21	968	Oct 20 1963
ANNUAL SEVEN-DAY MINIMUM	2740	Aug 25	2820	Aug 19	1870	Aug 15 1964
MAXIMUM PEAK FLOW			75900	Apr 17	282000	Mar 20 1936
MAXIMUM PEAK STAGE			4.33	Apr 17	16.60	Mar 20 1936
INSTANTANEOUS LOW FLOW			1050	Oct 21	968	Oct 20 1963
10 PERCENT EXCEEDS	26700		29900		37200	
50 PERCENT EXCEEDS	8880		8160		11200	
90 PERCENT EXCEEDS	3490		3570		4070	

a From floodmarks.



## CONNECTICUT RIVER BASIN

## 01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1956, 1966 to current year.

PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1999, December 2001 to current year.

WATER TEMPERATURES: October 1955 to September 1956, October 1973 to September 1999, December 2001 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1973.

EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 443 microsiemens Feb. 15, 1992; minimum, 46 microsiemens April 2, 1977.

WATER TEMPERATURES: Maximum, 36.5°C Aug. 30, 1977; minimum, 0.0°C on many days during winter periods.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (CENT-SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT													
12...	1040	3730	1.2	9.6	98	--	168	25.0	16.5	--	--	--	21.1
25...	1020	6600	.52	9.2	94	7.3	168	--e	15.5	36	44	0	20.7
NOV													
16...	1030	3670	.55	13.2	115	7.2	176	20.0	9.0	38	46	0	20.6
DEC													
13...	1100	4510	.48	12.8	101	7.3	163	4.0	5.5	32	39	0	19.5
JAN													
18...	1100	6730	--	13.9	101	7.2	160	4.0	2.0	29	35	0	19.6
FEB													
14...	1045	12700	1.9	14.3	99	7.1	142	6.5	1.0	26	31	0	18.1
MAR													
08...	1200	16300	--	13.6	102	7.0	116	13.5	4.0	19	23	0	14.5
27...	1110	16200	--	13.0	101	6.6	153	10.0	4.5	23	29	0	--
APR													
09...	1250	22300	3.3	12.3	101	7.1	106	22.0	7.0	19	23	0	11.7
26...	1100	24500	6.0	10.9	95	6.7	86	9.5	9.5	17	20	0	--
MAY													
07...	1040	23500	3.0	10.6	100	7.0	106	24.0	12.5	21	26	0	10.6
21...	1055	37200	3.9	10.6	95	6.4	88	14.5	10.5	17	21	0	--
JUN													
10...	0945	20800	2.1	8.9	92	7.2	92	20.0	17.0	15	18	0	10.1
10...	1120	20500	--	9.0	96	7.2	89	--	18.0	--	--	--	--
13...	2015	26700	--	--	--	--	--	--	--	--	--	--	--
26...	1030	13900	--	8.7	101	7.2	104	32.5	22.5	22	27	0	--
JUL													
18...	1045	9390	--	8.8	110	7.6	154	30.0	26.5	33	40	0	16.3
29...	1035	6510	--	8.9	108	7.6	161	31.0	25.2	35	43	0	--
AUG													
08...	0945	3300	.85	8.2	100	7.8	146	24.0	25.5	32	39	0	15.3
23...	1220	3500	--	8.9	109	7.7	165	25.0	25.5	37	45	0	--
28...	1100	4140	--	--	--	--	--	--	--	--	--	--	--
SEP													
26...	0830	5720	.46	8.6	97	7.1	173	17.0	21.0	38	46	0	18.7
Date		SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + NO2+NO3 DIS-SOLVED (MG/L AS N) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, PAR-TICULATE WAT FLT SUSP (MG/L AS N) (49570)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
OCT													
12...	10.6	E.04	.35	.34	.010	.10	.05	.077	.8	<.1	3.3	.8	<.002
25...	10.2	.10	.37	.33	.008	--	.05	.072	--	--	--	--	<.002
NOV													
16...	10.8	<.04	.30	.39	.012	.04	.07	.088	.2	<.1	3.3	.2	<.002
DEC													
13...	10.2	.04	.30	.47	.016	.03	.08	.098	.2	--	3.1	--	<.002
JAN													
18...	10.5	.06	.26	.46	.010	.04	E.01	.032	.3	<.1	3.1	.3	<.006
FEB													
14...	9.4	.07	.31	.35	E.007	.04	E.01	.042	.4	<.1	3.2	.4	<.006
MAR													
08...	7.8	.04	.25	1.83	.020	.05	E.01	.035	.4	<.1	2.9	.4	<.006
27...	--	.10	.35	.40	E.004	--	.02	.058	--	--	--	--	<.006
APR													
09...	7.5	E.02	.23	.26	<.008	--	E.01	.031	--	--	--	--	<.006
26...	--	.04	.32	.19	E.005	.07	<.02	.039	.7	<.1	4.2	.6	<.006
MAY													
07...	6.8	E.03	.20	.17	<.008	.04	E.01	.031	.5	<.1	3.4	.4	<.006
21...	--	<.04	.20	.18	.014	--	<.02	.034	--	--	--	--	<.006
JUN													
10...	5.7	E.02	.28	.20	<.008	--	<.02	.035	--	--	--	--	<.006
10...	5.8	--	--	--	--	--	--	--	--	--	4.3	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	.05	.26	.23	E.005	.03	E.01	.031	.3	<.1	4.0	.3	<.006
JUL													
18...	8.6	<.04	.39	.27	E.006	.04	.02	.050	.2	<.1	3.9	.2	<.006
29...	--	.04	.27	.30	.008	--	.02	.034	--	--	--	--	<.006
AUG													
08...	8.4	<.04	.29	.32	E.005	--	<.02	.038	--	--	--	--	--
23...	--	<.04	.26	.27	<.008	.02	.02	.040	.2	<.1	3.8	.2	<.006
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
26...	9.6	.05	.32	.26	.008	<.02	E.01	.031	.2	<.1	3.6	.2	<.006

## CONNECTICUT RIVER BASIN

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## 01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
OCT													
12...	<.004	<.002	<.005	<.007	<.010	<.002	E.011	<.020	<.005	<.018	<.003	E.004	<.005
25...	<.004	<.002	<.005	E.003	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.004	E.003
NOV													
16...	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.004	<.005
DEC													
13...	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
JAN													
18...	<.006	<.004	<.005	.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005
FEB													
14...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
MAR													
08...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
27...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	.006
APR													
09...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
26...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
MAY													
07...	<.006	<.004	<.005	E.007n	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005
21...	<.006	<.004	<.005	.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
JUN													
10...	<.006	<.004	<.005	.023	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003	<.005
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.006	<.004	<.005	.046	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.007	E.003n
JUL													
18...	<.006	<.010	<.005	.065	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.005	<.005
29...	<.006	.008	<.005	.062	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	E.003
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.006	<.004	<.005	.038	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.009	E.003n
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
26...	<.006	<.004	<.005	.036	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.007	<.005

Date	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPIC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONoFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
OCT													
12...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006
25...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	E.004	<.050	<.006	E.004	<.006
NOV													
16...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.004	<.006
DEC													
13...	<.005	<.02	<.010	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006
JAN													
18...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.002	<.006
FEB													
14...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003n	<.006
MAR													
08...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003n	<.006
27...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.010n	<.006
APR													
09...	<.005	<.02	--u	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.005n	<.006
26...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	<.013	<.006
MAY													
07...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.003n	<.006
21...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.005n	<.006
JUN													
10...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.009n	<.006
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.050	.027	<.006
JUL													
18...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.027	<.006
29...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.023	<.006
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.010n	<.006
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
26...	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	E.005n	<.050	<.006	E.010n	<.006

## CONNECTICUT RIVER BASIN

## 01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- (UG/L) (39542)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)
OCT													
12...	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02
25...	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02
NOV													
16...	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02
DEC													
13...	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02
JAN													
18...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
FEB													
14...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
MAR													
08...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
27...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
APR													
09...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
26...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
MAY													
07...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
21...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
JUN													
10...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
JUL													
18...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02
29...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M	<.004	<.010	<.011	<.02
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01n	<.004	<.010	<.011	<.02
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
26...	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01n	<.004	<.010	<.011	<.02
	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT													
12...	<.011	<.02	<.034	<.02	<.005	<.002	<.009	58	5.0	50.4	--	--	--
25...	<.011	<.02	<.034	<.02	<.005	<.002	<.009	54	5.0	89.0	48	15.2	2.35
NOV													
16...	<.011	<.02	<.034	<.02	<.005	<.002	<.009	60	3.0	29.7	--	--	--
DEC													
13...	<.011	<.02	<.034	<.02	<.005	<.002	<.009	100	1.0	12.2	42	13.5	2.10
JAN													
18...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	83	2.0	36.3	--	--	--
FEB													
14...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	70	9.0	309	35	11.0	1.79
MAR													
08...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	41	14	616	--	--	--
27...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	80	11	481	--	--	--
APR													
09...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	88	6.0	361	27	8.75	1.27
26...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	90	18	1190	--	--	--
MAY													
07...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	74	13	825	--	--	--
21...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	--	--	--	--	--	--
JUN													
10...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	76	10	562	26	8.14	1.28
10...	--	--	--	--	--	--	--	85	8.0	443	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	80	4.0	150	--	--	--
JUL													
18...	<.005	<.02	<.034	<.02	<.005	<.002	<.009	50	1.0	25.4	39	12.9	1.73
29...	E.005	<.02	<.034	<.02	<.005	<.002	<.009	75	1.0	17.6	--	--	--
AUG													
08...	--	--	--	--	--	--	--	--	--	--	41	13.3	1.79
23...	E.004n	<.02	<.034	<.02	<.005	<.002	<.009	71	2.0	18.9	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
26...	E.004n	<.02	<.034	<.02	<.005	<.002	<.009	67	1.0	15.4	48	15.8	2.20

## CONNECTICUT RIVER BASIN

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## 01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ENTERO- COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)
OCT													
12...	--	--	--	--	--	--	--	--	.69	--	--	--	--
25...	2.36	14.2	E.1	2.88	94	102	.29	.27	.70	.068	3.7	9k	32k
NOV													
16...	--	--	--	--	--	--	--	--	.69	--	--	--	--
DEC													
13...	2.03	12.6	.1	4.43	94	94	.26	.26	.77	.092	2.6	17k	100
JAN													
18...	--	--	--	--	--	--	--	.21	.73	--	--	--	--
FEB													
14...	1.35	11.5	E.1n	5.60	92	84	.23	.24	.66	.021	3.2	52	83
MAR													
08...	--	--	--	--	--	--	--	.21	2.1	--	--	--	--
27...	--	--	--	--	--	--	--	.26	.75	--	--	--	--
APR													
09...	.98	7.24	.2	5.13	55	69	.17	--	.48	.016	3.5	6k	30k
26...	--	--	--	--	--	--	--	.27	.51	--	--	--	--
MAY													
07...	--	--	--	--	--	--	--	--	.37	--	--	--	--
21...	--	--	--	--	--	--	--	--	.38	--	--	--	--
JUN													
10...	.90	7.23	<.1	5.37	61	67	.22	--	.49	.017	4.9	5k	10800k
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	.21	.48	--	--	--	--
JUL													
18...	1.78	10.7	<.10	4.38	82	83	.24	--	.66	.035	4.6	25k	31k
29...	--	--	--	--	--	--	--	.22	.57	--	--	--	--
AUG													
08...	1.61	10.4	E.08n	3.87	93	91	.22	--	.60	.032	3.9	40k	128
23...	--	--	--	--	--	--	--	--	.52	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
26...	2.12	13.1	E.1n	2.82	95	95	.25	.27	.58	.023	3.5	39	48
Date	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
OCT													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	8	.08	15	<.06	<.04	<.8	.06	2.2	42	E.07	25.2	.6	.41
NOV													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
13...	10	.06	13	<.06	<.04	<.8	.07	1.4	103	.10	21.7	.5	1.26
JAN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
14...	17	E.03	11	<.06	<.04	<.8	.07	1.4	96	.09	23.5	.3	.50
MAR													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
09...	26	.05	10	<.06	<.04	<.8	.07	1.5	57	E.08	18.9	E.1	.39
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
10...	32	E.04	11	<.06	<.04	<.8	.06	1.5	138	.14	13.6	.3	.44
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
18...	19	.09	12	<.06	E.02	<.8	.07	2.0	87	.13	12.1	.5	.79
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
08...	18	.11	13	<.06	<.04	<.8	.06	1.9	49	E.06	18.8	.5	.62
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
26...	13	.09	13	<.06	<.04	<.8	.08	1.9	34	E.06	9.7	.7	1.25

## CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
OCT			
12...	--	--	--
25...	<1	2	.07
NOV			
16...	--	--	--
DEC			
13...	<1	4	.10
JAN			
18...	--	--	--
FEB			
14...	<1	3	.09
MAR			
08...	--	--	--
27...	--	--	--
APR			
09...	<1	1	.07
26...	--	--	--
MAY			
07...	--	--	--
21...	--	--	--
JUN			
10...	<1	2	.09
10...	--	--	--
13...	--	--	--
26...	--	--	--
JUL			
18...	<1	2	.10
29...	--	--	--
AUG			
08...	<1	2	.09
23...	--	--	--
28...	--	--	--
SEP			
26...	<1	2	.10

Value qualifier codes used in this report:

k -- Counts outside acceptable range

n -- Below the NDV

Null value qualifier codes used in this report:

e -- Required equipment not functional/avail

u -- Unable to determine-matrix interference

## TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	1.1	0.5	0.7
2	---	---	---	---	---	---	---	---	---	0.9	0.3	0.6
3	---	---	---	---	---	---	---	---	---	0.9	0.5	0.7
4	---	---	---	---	---	---	---	---	---	0.9	0.4	0.7
5	---	---	---	---	---	---	---	---	---	1.2	0.6	0.9
6	---	---	---	---	---	---	9.4	8.9	9.1	1.6	1.0	1.3
7	---	---	---	---	---	---	9.5	8.8	9.2	1.2	0.9	1.1
8	---	---	---	---	---	---	8.8	7.6	8.2	1.3	0.7	1.0
9	---	---	---	---	---	---	7.6	6.4	6.8	1.3	0.9	1.1
10	---	---	---	---	---	---	6.4	5.8	6.1	1.9	1.1	1.5
11	---	---	---	---	---	---	6.1	5.8	6.0	1.9	1.7	1.8
12	---	---	---	---	---	---	5.9	5.4	5.7	2.1	1.6	1.8
13	---	---	---	---	---	---	5.9	5.7	5.8	2.3	1.8	2.1
14	---	---	---	---	---	---	6.5	5.9	6.2	2.3	1.8	2.1
15	---	---	---	---	---	---	6.7	5.9	6.5	2.1	1.8	2.0
16	---	---	---	---	---	---	5.9	5.0	5.2	2.6	1.9	2.2
17	---	---	---	---	---	---	5.0	4.5	4.8	2.4	1.9	2.2
18	---	---	---	---	---	---	5.1	4.5	4.8	2.3	1.9	2.1
19	---	---	---	---	---	---	4.8	3.9	4.4	1.9	1.0	1.4
20	---	---	---	---	---	---	4.0	3.7	3.8	1.4	0.6	1.1
21	---	---	---	---	---	---	3.9	3.5	3.7	1.4	1.0	1.2
22	---	---	---	---	---	---	3.5	3.1	3.3	1.4	0.9	1.1
23	---	---	---	---	---	---	3.1	2.7	2.9	2.2	0.9	1.5
24	---	---	---	---	---	---	3.6	3.0	3.3	2.7	2.0	2.3
25	---	---	---	---	---	---	3.3	2.7	2.9	3.2	2.5	2.9
26	---	---	---	---	---	---	2.8	2.4	2.6	2.7	2.3	2.5
27	---	---	---	---	---	---	2.5	2.1	2.3	3.0	2.1	2.6
28	---	---	---	---	---	---	2.1	1.6	1.8	3.1	2.5	2.8
29	---	---	---	---	---	---	1.8	1.3	1.6	3.9	2.8	3.4
30	---	---	---	---	---	---	1.7	1.3	1.5	4.3	3.9	4.1
31	---	---	---	---	---	---	1.3	0.7	0.9	4.1	2.8	3.4
MONTH	---	---	---	---	---	---	---	---	---	4.3	0.3	1.8



01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.8	2.3	2.6	3.4	2.3	2.9	7.0	6.1	6.5	9.8	8.4	9.1
2	2.3	1.3	1.8	3.1	2.4	2.8	6.6	6.1	6.4	9.6	9.0	9.2
3	1.6	0.8	1.2	4.3	3.1	3.7	6.9	6.0	6.4	9.4	8.9	9.1
4	1.6	0.9	1.2	4.3	3.4	3.8	6.9	6.1	6.4	10.0	8.5	9.4
5	1.2	0.7	1.0	3.4	2.6	3.0	6.2	5.6	5.9	11.4	9.7	10.6
6	1.7	0.8	1.2	2.8	2.1	2.5	6.0	5.2	5.6	12.7	10.6	11.7
7	1.4	1.0	1.2	3.6	2.2	3.0	5.8	4.8	5.4	13.6	11.9	12.8
8	2.4	1.2	1.8	4.6	3.2	3.9	5.8	5.4	5.6	14.4	12.7	13.6
9	2.8	2.0	2.4	6.2	4.5	5.1	7.8	5.6	6.8	13.9	13.4	13.6
10	2.3	1.8	2.0	7.0	5.7	6.6	9.4	7.5	8.4	15.2	13.3	14.3
11	2.5	1.8	2.2	5.7	4.3	4.8	9.4	8.1	8.7	15.6	14.0	14.9
12	1.8	0.9	1.3	4.3	3.5	3.8	9.2	8.0	8.7	15.1	14.2	14.5
13	1.6	0.9	1.2	3.5	3.2	3.3	10.6	9.2	9.9	14.2	12.2	13.4
14	1.5	0.7	1.1	4.4	2.9	3.7	11.2	10.0	10.7	12.2	10.8	11.3
15	1.7	0.9	1.4	4.5	4.1	4.3	11.1	10.4	10.8	10.8	10.3	10.5
16	2.7	1.7	2.2	4.7	4.2	4.5	10.9	10.2	10.6	11.0	10.1	10.6
17	2.7	2.4	2.5	4.6	3.6	4.1	11.3	10.1	10.8	12.1	10.7	11.4
18	2.8	1.9	2.4	4.3	3.8	4.0	12.2	11.0	11.6	12.0	11.2	11.4
19	3.1	2.0	2.6	4.1	3.7	3.9	12.4	11.4	12.0	11.2	10.3	10.7
20	3.6	2.7	3.1	4.0	3.3	3.7	12.8	11.7	12.2	11.0	10.2	10.6
21	4.5	3.5	4.0	4.7	2.9	3.8	12.7	11.7	12.2	11.0	10.1	10.6
22	4.6	4.1	4.4	4.2	3.4	3.7	12.4	10.6	11.4	12.1	10.7	11.4
23	4.3	3.6	4.0	3.8	2.9	3.4	10.6	9.6	10.1	13.1	11.6	12.4
24	3.8	3.0	3.5	4.5	3.2	3.9	10.8	9.2	10.0	14.4	12.5	13.5
25	3.8	2.9	3.4	5.0	4.1	4.6	10.2	9.5	9.9	15.3	13.4	14.4
26	4.8	3.6	4.2	5.0	4.5	4.7	9.8	9.0	9.4	15.0	14.1	14.6
27	4.9	3.9	4.5	5.5	4.3	4.9	10.5	8.7	9.6	15.9	14.4	15.1
28	3.9	3.1	3.5	6.2	4.8	5.5	10.0	9.2	9.6	16.6	15.7	16.1
29	---	---	---	6.5	4.9	5.7	9.2	8.7	8.9	17.9	16.6	17.2
30	---	---	---	7.0	5.7	6.3	9.3	8.2	8.8	18.7	17.3	18.0
31	---	---	---	7.0	6.3	6.7	---	---	---	19.9	18.4	19.1
MONTH	4.9	0.7	2.4	7.0	2.1	4.2	12.8	4.8	9.0	19.9	8.4	12.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.6	19.0	19.8	24.8	23.4	24.1	---	---	---	21.8	20.8	21.3
2	20.3	19.2	19.7	25.5	24.0	24.8	---	---	---	21.2	20.7	20.9
3	20.0	18.7	19.4	26.7	24.9	25.9	---	---	---	22.4	20.6	21.5

## CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	---	---	---	158	150	155
2	---	---	---	---	---	---	---	---	---	158	152	155
3	---	---	---	---	---	---	---	---	---	157	151	155
4	---	---	---	---	---	---	---	---	---	154	146	151
5	---	---	---	---	---	---	---	---	---	157	148	154
6	---	---	---	---	---	---	149	143	147	162	155	159
7	---	---	---	---	---	---	150	146	148	169	155	161
8	---	---	---	---	---	---	153	147	151	194	169	182
9	---	---	---	---	---	---	157	150	153	191	180	188
10	---	---	---	---	---	---	182	153	168	190	174	182
11	---	---	---	---	---	---	188	177	183	186	178	183
12	---	---	---	---	---	---	177	167	170	186	175	182
13	---	---	---	---	---	---	172	163	167	178	173	175
14	---	---	---	---	---	---	172	163	166	181	173	177
15	---	---	---	---	---	---	173	161	168	183	172	178
16	---	---	---	---	---	---	167	144	156	179	161	173
17	---	---	---	---	---	---	144	137	140	168	162	165
18	---	---	---	---	---	---	188	140	173	173	160	166
19	---	---	---	---	---	---	181	140	160	163	159	161
20	---	---	---	---	---	---	140	126	132	162	153	158
21	---	---	---	---	---	---	135	126	131	177	159	166
22	---	---	---	---	---	---	140	135	138	188	173	182
23	---	---	---	---	---	---	149	140	146	182	170	178
24	---	---	---	---	---	---	157	144	150	181	169	175
25	---	---	---	---	---	---	156	139	147	174	161	171
26	---	---	---	---	---	---	146	139	143	172	163	168
27	---	---	---	---	---	---	153	143	148	164	150	159
28	---	---	---	---	---	---	153	147	151	150	139	144
29	---	---	---	---	---	---	150	147	149	141	137	139
30	---	---	---	---	---	---	156	146	151	153	141	149
31	---	---	---	---	---	---	155	150	153	153	141	145
MONTH	---	---	---	---	---	---	---	---	---	194	137	166

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	185	148	168	127	123	125	117	109	114	96	95	95
2	199	178	189	125	122	123	109	101	104	102	95	98
3	186	146	164	135	121	126	101	98	99	104	101	102
4	150	143	146	139	122	129	102	99	101	102	99	100
5	149	140	145	122	116	119	99	97	98	101	99	100
6	142	133	138	116	113	115	103	99	102	104	100	102
7	134	126	130	118	113	114	103	100	101	105	103	104
8	135	129	133	119	117	118	105	102	103	107	104	105
9	143	135	140	126	118	122	107	104	105	109	105	107
10	151	143	148	130	125	128	111	107	108	111	109	110
11	161	142	151	129	111	119	111	103	106	113	109	111
12	160	131	144	112	109	111	108	103	104	117	111	113
13	138	133	134	113	108	111	111	108	109	118	113	115
14	143	133	139	108	104	106	109	101	103	114	78	91
15	133	124	128	107	103	105	102	91	98	78	76	77
16	140	131	136	108	102	104	91	77	82	83	76	79
17	145	136	142	112	108	111	77	74	76	85	82	84
18	165	139	152	116	109	111	78	74	76	94	85	90
19	155	141	149	122	116	119	80	78	79	93	86	88
20	144	136	140	129	121	123	83	76	79	86	85	85
21	159	141	152	178	129	153	90	78	80	89	86	88
22	158	148	154	184	147	166	85	78	81	92	89	90
23	150	137	142	147	140	142	86	80	83	94	90	92
24	138	129	133	141	138	139	89	85	87	99	94	95
25	133	128	130	142	139	140	94	86	88	102	98	99
26	134	128	130	146	141	142	98	92	95	104	102	103
27	129	124	126	154	146	151	99	95	97	108	104	105
28	131	127	130	151	135	143	105	98	101	111	108	109
29	---	---	---	135	133	134	105	100	103	114	109	112
30	---	---	---	135	130	133	100	94	96	109	99	103
31	---	---	---	132	113	118	---	---	---	113	104	108
MONTH	199	124	143	184	102	126	117	74	95	118	76	99

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

[illegible]

## CONNECTICUT RIVER BASIN

## 01184100 STONY BROOK NEAR WEST SUFFIELD, CT

**LOCATION.**--Lat 41°57'38", long 72°42'39", Hartford County, Hydrologic Unit 01080205, on right bank at upstream side of bridge on South Grand St., 2.1 mi south of West Suffield.

**DRAINAGE AREA.**--10.4 mi<sup>2</sup>.

**PERIOD OF RECORD.**--Annual maximum, water years 1960-81. May 1981 to current year.

**REVISED RECORDS.**--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 149.21 ft above sea level.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum discharge, 17,300 ft<sup>3</sup>/s on basis of slope-area measurement, at site 5.6 mi downstream, just below State Route 75, drainage area = 36.9 mi<sup>2</sup>, Aug. 19, 1955.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 184 ft<sup>3</sup>/s, May 14, gage height, 2.95 ft; minimum discharge, 0.23 ft<sup>3</sup>/s, Aug. 19, 20, gage height, 1.20 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.99	2.7	0.91	7.7	3.6	16	16	41	2.8	0.66	0.65
2	1.6	0.71	1.8	e0.85	9.3	3.2	15	17	13	2.5	1.4	0.94
3	2.6	1.6	1.4	e0.80	5.0	46	9.9	34	7.1	2.3	3.6	0.93
4	3.6	1.3	1.2	e0.77	3.3	30	11	17	5.5	2.0	1.6	1.1
5	1.3	1.2	1.3	e0.75	2.6	13	8.5	11	7.0	1.7	1.1	0.95
6	1.0	0.84	1.2	1.1	2.1	7.3	7.1	8.4	29	1.5	0.88	0.76
7	0.84	0.84	1.3	1.3	1.9	6.5	5.8	7.7	77	1.4	0.76	0.61
8	0.70	1.2	1.6	e1.2	e1.8	5.5	5.8	8.1	60	1.3	0.63	0.52
9	0.73	1.4	2.5	e1.1	e1.7	4.9	6.1	8.3	21	1.3	0.61	0.43
10	0.89	3.1	2.5	e1.1	e1.6	8.5	7.3	9.0	14	2.2	0.55	0.41
11	0.81	2.4	2.7	2.1	10	6.6	6.5	9.1	10	1.6	0.52	0.40
12	0.81	1.3	3.3	2.8	8.5	5.0	5.8	12	21	1.2	0.44	0.39
13	1.0	0.77	4.1	4.0	4.2	4.5	5.6	62	50	1.1	0.46	0.39
14	1.1	0.76	4.8	4.4	2.5	5.2	5.6	120	21	0.90	0.44	0.39
15	2.4	1.2	8.1	3.5	e2.2	6.5	27	60	35	1.2	0.44	0.42
16	3.0	2.1	4.9	e3.0	2.4	7.3	16	18	33	1.5	0.50	0.75
17	2.3	0.66	3.3	e2.5	3.4	7.5	9.5	12	41	1.0	0.38	0.47
18	1.5	0.40	16	e2.0	4.3	5.9	7.6	45	19	0.84	0.36	0.45
19	1.5	0.43	11	e1.8	3.6	7.8	6.5	49	13	1.4	0.30	0.46
20	2.4	0.57	5.2	e1.6	3.2	8.8	6.0	20	13	4.5	0.64	0.44
21	2.2	1.3	3.3	e1.5	16	24	5.6	14	9.9	2.0	0.41	0.45
22	1.2	0.58	2.3	1.7	10	26	5.4	11	8.7	1.4	0.37	0.43
23	1.3	0.47	2.0	2.4	6.0	11	9.2	8.7	8.5	1.4	0.40	0.53
24	1.7	0.63	7.0	e4.6	4.3	8.9	8.5	7.6	7.6	2.8	0.38	0.39
25	1.6	1.2	6.6	e3.8	4.0	7.6	8.3	6.9	6.5	1.8	0.49	0.43
26	1.6	3.5	3.8	e2.6	3.7	7.6	21	6.1	5.7	1.4	0.36	0.50
27	3.9	2.4	2.5	e2.4	3.9	49	11	7.9	5.1	1.3	0.35	1.6
28	6.1	1.7	1.8	e2.6	4.0	27	24	7.6	5.1	1.2	0.35	2.7
29	2.3	2.6	1.6	e3.0	---	14	47	9.8	4.6	1.3	1.3	2.2
30	0.78	3.2	1.4	e3.9	---	11	24	8.3	3.4	1.0	1.5	0.96
31	0.57	---	1.2	4.8	---	10	---	15	---	0.77	1.0	---
TOTAL	54.43	41.35	114.4	70.88	133.2	389.7	352.6	646.5	595.7	50.61	23.18	22.05
MEAN	1.76	1.38	3.69	2.29	4.76	12.6	11.8	20.9	19.9	1.63	0.75	0.73
MAX	6.1	3.5	16	4.8	16	49	47	120	77	4.5	3.6	2.7
MIN	0.57	0.40	1.2	0.75	1.6	3.2	5.4	6.1	3.4	0.77	0.30	0.39
CFSM	0.17	0.13	0.35	0.22	0.46	1.21	1.13	2.01	1.91	0.16	0.07	0.07
IN.	0.19	0.15	0.41	0.25	0.48	1.39	1.26	2.31	2.13	0.18	0.08	0.08

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2002, BY WATER YEAR (WY)

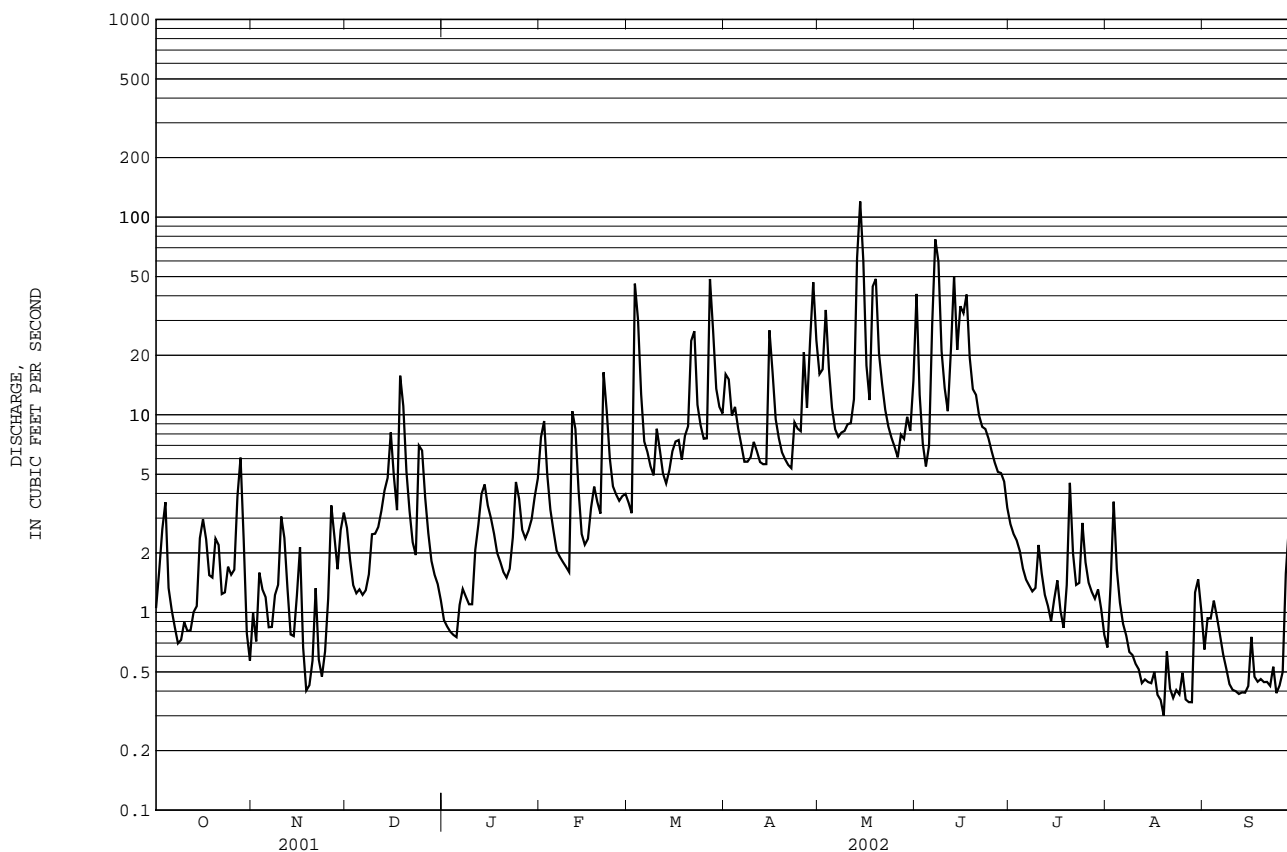
	MEAN	12.2	18.4	21.5	22.0	24.9	41.6	34.3	23.7	20.0	5.44	6.10	6.98
MAX	44.2	36.5	57.9	60.3	59.6	100	92.6	73.9	97.5	14.0	20.3	37.2	
(WY)	1990	1996	1997	1996	1984	2001	1983	1989	1982	2000	2000	1999	
MIN	1.76	1.38	3.69	2.29	4.76	12.6	8.13	5.79	1.25	0.56	0.41	0.48	
(WY)	2002	2002	2002	2002	2002	2002	1985	1986	1999	1999	1993	1983	

e Estimated.

## 01184100 STONY BROOK NEAR WEST SUFFIELD, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1981 - 2002	
ANNUAL TOTAL	6927.69		2494.60		19.8	
ANNUAL MEAN	19.0		6.83		29.9	
HIGHEST ANNUAL MEAN					6.83	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	700	Mar 22	120	May 14	910	Jun 6 1982
LOWEST DAILY MEAN	0.20	Sep 20	0.30	Aug 19	0.08	Sep 4 1995
ANNUAL SEVEN-DAY MINIMUM	0.25	Sep 3	0.39	Aug 22	0.13	Sep 2 1995
MAXIMUM PEAK FLOW			184	May 14	1280	Jun 6 1982
MAXIMUM PEAK STAGE			2.95	May 14	5.83	Jun 6 1982
INSTANTANEOUS LOW FLOW			0.23	Aug 19	0.07	Sep 3 1995
ANNUAL RUNOFF (CFSM)	1.82		0.66		1.91	
ANNUAL RUNOFF (INCHES)	24.78		8.92		25.92	
10 PERCENT EXCEEDS	47		16		46	
50 PERCENT EXCEEDS	4.2		2.6		9.5	
90 PERCENT EXCEEDS	0.52		0.52		1.2	

a Also occurred Aug. 20.



**LOCATION.**--Lat 41°54'50", long 72°33'00", Hartford County, Hydrologic Unit 01080205, on left bank just upstream from bridge on State Rt. 191 (Mill Street) at Broad Brook, 0.5 mi upstream from mouth.

**DRAINAGE AREA.**--15.5 mi<sup>2</sup>.

**PERIOD of RECORD.**--August 1961 to September 1976, May 1982 to current year.

REVISED RECORDS.--WSP 2101: 1962 (P). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 46.210 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good, except those for periods of estimated record, which are fair. Flow regulated by reservoir and mill upstream.

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
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No peak greater than base discharge.

Minimum discharge, 5.6 ft<sup>3</sup>/s, Aug. 2, gage height, 0.58 ft.

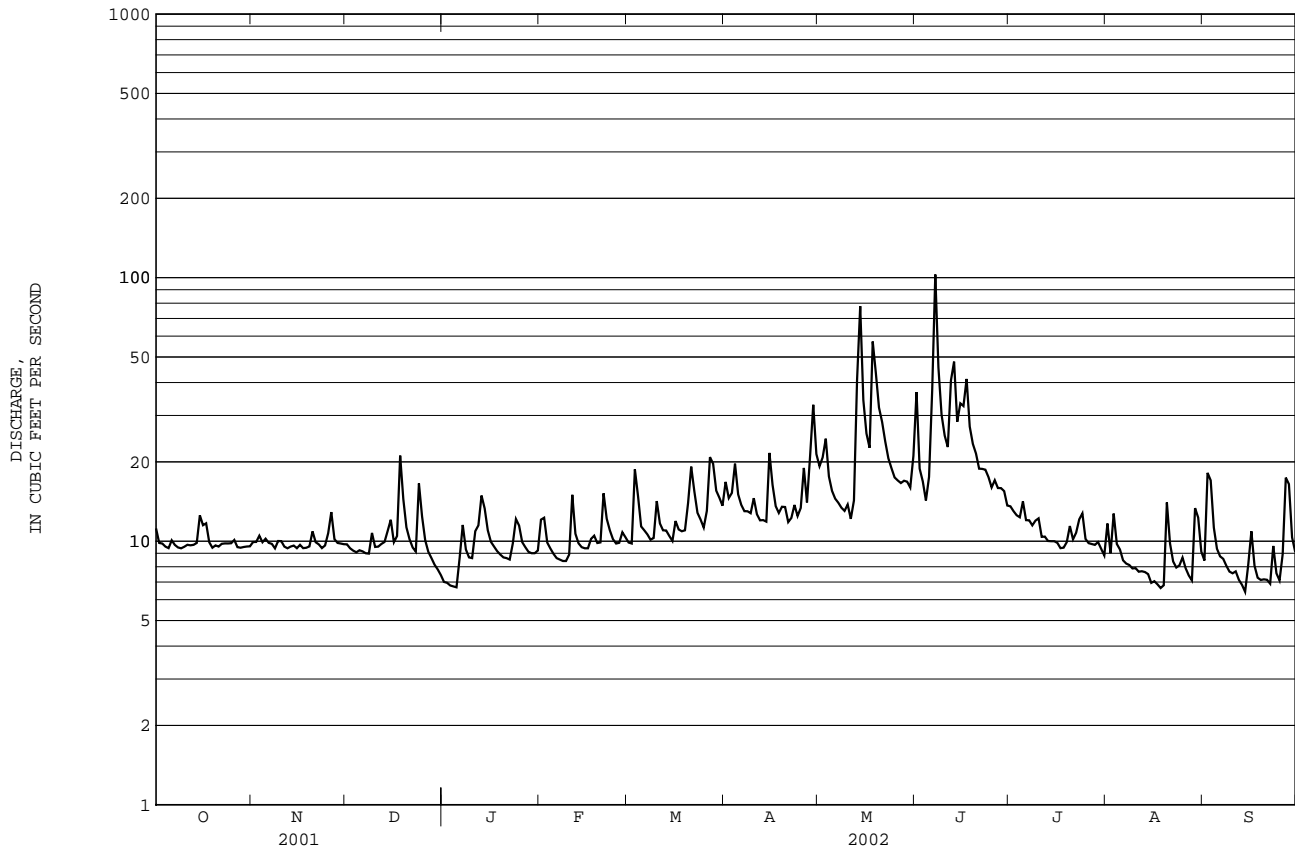
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.9	9.7	e7.0	12	9.9	17	19	37	14	12	8.4
2	9.8	9.9	9.4	e7.0	12	9.8	15	21	19	13	9.0	18
3	9.8	10	9.2	e6.8	9.9	19	15	24	17	13	13	17
4	9.5	9.9	9.1	e6.7	e9.4	15	20	18	14	12	9.8	11
5	9.4	10	9.2	e6.7	e9.0	11	15	16	18	14	9.3	9.4
6	10	9.9	9.2	8.6	e8.6	11	14	15	37	12	8.5	8.8
7	9.7	9.8	9.0	12	e8.5	11	13	14	103	12	8.2	8.6
8	9.5	9.4	9.0	9.3	e8.4	10	13	13	46	11	8.1	8.1
9	9.4	10	11	e8.7	e8.4	10	13	13	30	12	7.9	7.7
10	9.5	10	9.5	e8.6	e8.9	14	15	14	25	12	7.9	7.6
11	9.7	9.5	9.5	11	15	12	13	12	23	10	7.7	7.7
12	9.6	9.4	9.8	11	11	11	12	14	41	10	7.7	7.1
13	9.7	9.5	9.9	15	9.8	11	12	41	48	10	7.6	6.8
14	9.8	9.6	11	13	9.5	10	12	78	28	10	7.5	6.4
15	13	9.4	12	11	9.4	10	22	34	33	10	7.0	8.2
16	12	9.7	9.9	9.9	9.4	12	16	26	33	9.9	7.1	11
17	12	9.4	10	e9.5	10	11	14	23	41	9.4	6.9	8.1
18	9.9	9.4	21	e9.2	10	11	13	57	27	9.5	6.6	7.3
19	9.4	9.6	14	e8.9	9.8	11	14	44	23	9.9	6.8	7.1
20	9.6	11	11	e8.7	9.9	14	13	32	22	11	14	7.2
21	9.5	9.9	10	e8.6	15	19	12	28	19	10	9.8	7.1
22	9.8	9.7	9.5	e8.5	12	15	12	24	19	11	8.4	6.9
23	9.8	9.4	9.1	9.8	11	13	14	21	19	12	7.9	9.6
24	9.8	9.6	17	12	10	12	12	19	18	13	8.1	7.6
25	9.8	11	12	11	9.8	11	13	17	16	10	8.7	7.1
26	10	13	e10	9.9	9.9	13	19	17	17	9.8	7.9	8.9
27	9.5	10	e9.1	e9.5	11	21	14	17	16	9.8	7.4	17
28	9.4	9.8	e8.6	e9.1	10	20	21	17	16	9.7	7.1	16
29	9.5	9.8	e8.1	e9.0	---	16	33	17	15	9.9	13	10
30	9.5	9.7	e7.8	e9.0	---	15	21	16	14	9.4	12	9.1
31	9.6	---	e7.4	e9.2	---	14	---	21	---	8.8	9.1	---
TOTAL	308.5	297.2	321.0	294.2	287.6	402.7	462	742	834	338.1	272.0	280.8
MEAN	9.95	9.91	10.4	9.49	10.3	13.0	15.4	23.9	27.8	10.9	8.77	9.36
MAX	13	13	21	15	15	21	33	78	103	14	14	18
MIN	9.4	9.4	7.4	6.7	8.4	9.8	12	12	14	8.8	6.6	6.4
CFSM	0.64	0.64	0.67	0.61	0.66	0.84	0.99	1.54	1.79	0.70	0.57	0.60
IN.	0.74	0.71	0.77	0.71	0.69	0.97	1.11	1.78	2.00	0.81	0.65	0.60

MEAN	16.0	20.1	24.3	27.1	29.6	40.9	37.0	29.5	24.3	16.2	14.6	14.6
MAX	44.3	45.8	64.7	68.5	66.4	86.2	87.5	64.1	65.4	31.3	33.1	53.8
(WY)	1990	1976	1997	1976	1970	1972	1983	1984	1982	1967	1989	1975
MIN	7.44	8.37	8.71	7.98	10.3	13.0	12.9	12.7	9.78	5.24	5.00	6.77
(WY)	1966	1966	1966	1966	2002	2002	1966	1965	1965	1965	1965	1963

e Estimated.

## 01184490 BROAD BROOK AT BROAD BROOK, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1961 - 2002	
ANNUAL TOTAL	8044.6		4840.1		24.4	
ANNUAL MEAN	22.0		13.3		34.9	
HIGHEST ANNUAL MEAN					11.6	
LOWEST ANNUAL MEAN					1976	
HIGHEST DAILY MEAN	284	Mar 22	103	Jun 7	487	Mar 3 1972
LOWEST DAILY MEAN	7.4	Dec 31	6.4	Sep 14	1.7	Jul 17 1965
ANNUAL SEVEN-DAY MINIMUM	9.0	Dec 25	7.1	Dec 30	2.9	Jul 12 1965
MAXIMUM PEAK FLOW			133	Jun 7	1140	Sep 27 1975
MAXIMUM PEAK STAGE			1.92	Jun 7	6.56	Sep 27 1975
INSTANTANEOUS LOW FLOW			5.6	Aug 2	1.3	Jan 1 1965
ANNUAL RUNOFF (CFSM)	1.42		0.86		1.57	
ANNUAL RUNOFF (INCHES)	19.31		11.62		21.39	
10 PERCENT EXCEEDS	44		20		43	
50 PERCENT EXCEEDS	14		10		18	
90 PERCENT EXCEEDS	9.5		8.1		9.6	



## CONNECTICUT RIVER BASIN

## 01184490 BROAD BROOK AT BROAD BROOK, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--April 1997 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	
OCT 24...	1130	9.8	364	7.8	23.5	14.5	2.2	9.6	95	73	79	150	44.7	
DEC 04...	1340	9.0	367	8.0	17.5	8.5	2.1	12.0	102	184	54	140	42.4	
FEB 06...	1345	9.4	381	8.1	7.5	3.5	1.5	14.7	111	29k	42	140	42.0	
APR 02...	1330	15	320	7.5	16.0	11.5	1.8	12.2	112	31	13k	110	33.2	
JUN 11...	0850	21	269	7.7	25.0	17.5	--	9.3	97	--	--	--	--	
JUN 27...	1300	14	324	8.0	33.0	23.0	4.2	7.4	90	156	255k	120	35.3	
JUL 11...	0915	11	347	7.8	22.5	20.0	2.6	8.0	88	6000k	148	130	38.3	
JUL 16...	1100	10	--	--	--	--	--	--	--	--	--	--	--	
AUG 07...	0900	8.7	363	7.7	23.5	21.0	2.9	7.6	85	600	680	140	41.2	
SEP 19...	1030	7.1	378	7.7	23.5	19.0	2.6	8.7	94	300k	116	140	43.7	
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 24...	8.48	13.9	3.39	0	101	86	37.9	26.8	<.1	12.9	218	224	.043	
DEC 04...	8.03	13.3	3.48	0	100	83	41.2	26.5	<.1	10.8	226	226	.034	
FEB 06...	8.31	15.6	3.31	0	94	78	38.5	29.5	<.1	12.5	220	236	.032	
APR 02...	6.90	15.6	3.05	0	68	56	30.9	28.2	.1	11.2	195	196	.025	
JUN 11...	--	--	--	--	--	--	23.6	--	--	--	--	--	--	
JUN 27...	7.17	14.8	2.66	0	82	67	29.2	28.2	<.1	13.0	200	219	.029	
JUL 11...	7.72	14.7	3.47	0	95	78	30.6	28.5	<.1	13.8	206	230	.081	
JUL 16...	--	--	--	--	--	--	--	--	--	--	--	--	--	
AUG 07...	8.15	14.6	3.51	0	106	87	62.2	29.8	<.10	14.4	308	228	.083	
SEP 19...	8.39	14.4	3.43	0	105	86	36.3	26.4	<.1	12.8	230	218	.046	
		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 24...	4.55	.05	.28	.32	.21	4.9	.047	.028	E.01	10	.05	118	<.06	
DEC 04...	4.96	.06	.20	.26	.27	5.2	.038	.019	E.01	9	<.05	103	<.06	
FEB 06...	5.17	.08	.27	.34	.29	5.5	.047	.032	.03	9	<.05	109	<.06	
APR 02...	3.71	E.02	--	.37	.30	4.1	.074	.049	.04	17	.05	89	<.06	
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUN 27...	3.51	<.04	--	.37	.26	3.9	.098	.064	.05	20	.05	88	<.06	
JUL 11...	3.04	.17	.51	.68	.52	3.7	.138	.111	.08	16	E.03	85	<.06	
JUL 16...	--	--	--	--	--	--	--	--	--	--	--	--	--	
AUG 07...	3.04	.15	.39	.54	.41	3.6	.128	.099	.08	8	E.04	107	<.06	
SEP 19...	3.49	E.04	--	.46	.24	3.9	.053	.029	.02	8	E.05	117	<.06	



## CONNECTICUT RIVER BASIN

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## 01184490 BROAD BROOK AT BROAD BROOK, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24...	<.04	E.6	.13	.7	23	<.08	49.5	.3	<.06	<1	<1	.43	2.7
DEC 04...	<.04	<.8	.12	.6	26	<.08	61.3	.3	<.06	<1	<1	.36	--c
FEB 06...	<.04	<.8	.13	.9	34	.09	71.0	.3	.14	<1	1	.49	2.0
APR 02...	<.04	<.8	.14	1.2	63	E.05	108	.4	.38	<1	1	.32	3.8
JUN 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 27...	<.04	<.8	.12	1.1	61	.10	105	.5	<.06	<1	<1	.31	3.9
JUL 11...	<.04	<.8	.14	1.1	79	.14	172	.5	.32	<1	<1	.32	3.4
JUL 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 07...	<.04	<.8	.14	.7	39	<.08	100	.5	.61	<1	<1	.28	3.3
SEP 19...	<.04	<.8	.14	.7	13	<.08	19.2	.4	1.74	<1	<1	.42	2.8

Date	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, DIS- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 24...	--	--	--	--
DEC 04...	--	--	--	--
FEB 06...	--	--	--	--
APR 02...	--	--	--	--
JUN 11...	4.1	9.0	.50	72
JUN 27...	--	--	--	--
JUL 11...	--	--	--	--
JUL 16...	--	--	--	--
AUG 07...	--	--	--	--
SEP 19...	--	--	--	--

Value qualifier codes used in this report:

k -- Counts outside acceptable range

Null value qualifier codes used in this report:

c -- Sample lost in lab

## CONNECTICUT RIVER BASIN

## 01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CT

**LOCATION.**--Lat 41°57'46", long 73°01'05", Litchfield County, Hydrologic Unit 01080207, on right bank at downstream side of bridge on State Rt. 20 at Riverton, 0.3 mi upstream from Still River, 2.0 mi downstream from Goodwin Dam of West Branch Reservoir, and at mile 55.

**DRAINAGE AREA.**--131 mi<sup>2</sup>.

**PERIOD OF RECORD.**--Discharge: August 1955 to current year.

Water-quality records: Water years 1954, 1955, 1975-80.

**REVISED RECORDS.**--WSP 1501: 1956. WSP 1551: 1957. WSP 1701: 1958-59.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 485.60 ft above sea level. Prior to Mar. 29, 1957, nonrecording gage at same site and datum. Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by Otis and West Branch Reservoirs and Colebrook River Lake.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Aug. 19, 1955, reached a stage of 21.1 ft, from floodmarks, discharge, 57,200 ft<sup>3</sup>/s, by slope-area measurement 1.5 mi upstream.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 363 ft<sup>3</sup>/s, June 7, gage height, 4.44 ft; minimum discharge, 65 ft<sup>3</sup>/s, Sept. 25, 26, gage height, 3.26 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	196	124	136	104	107	160	148	211	207	172	83
2	215	196	124	137	104	107	157	153	207	212	173	83
3	216	197	108	137	102	129	154	174	180	213	173	83
4	216	196	97	137	114	142	155	153	165	212	172	84
5	171	172	97	137	123	147	153	146	168	212	154	83
6	147	154	97	137	124	144	151	158	195	212	140	83
7	147	154	97	116	124	141	150	165	282	211	139	83
8	107	153	97	97	122	139	158	164	201	145	139	83
9	81	152	97	97	123	139	165	163	181	106	139	83
10	81	151	94	98	123	148	165	163	172	105	138	83
11	81	150	93	99	128	153	163	161	169	146	138	83
12	81	137	93	99	125	156	163	164	185	174	139	83
13	81	129	93	99	124	154	164	230	183	174	141	83
14	81	127	94	99	123	152	164	269	177	236	142	83
15	83	126	96	98	122	151	173	192	180	263	142	84
16	83	127	95	98	122	153	166	174	204	256	142	86
17	83	129	90	98	122	153	164	168	243	259	142	84
18	83	128	95	98	119	150	162	214	232	259	141	84
19	83	127	93	98	115	147	161	197	223	260	105	84
20	83	128	90	98	116	150	162	171	219	259	84	84
21	83	128	88	97	127	152	161	162	217	259	83	84
22	108	127	87	97	126	154	160	157	215	259	83	84
23	124	128	86	98	122	151	160	155	213	262	83	84
24	124	129	116	99	119	150	158	154	207	265	83	77
25	124	130	137	100	113	152	159	153	204	218	83	67
26	123	127	135	99	108	154	165	150	203	179	83	66
27	123	124	134	99	109	178	163	186	207	228	83	69
28	124	123	133	99	108	168	175	206	208	266	82	75
29	166	123	133	100	---	161	172	207	204	287	85	70
30	195	124	132	103	---	160	152	205	201	298	84	68
31	196	---	134	103	---	158	---	205	---	218	83	---
TOTAL	3892	4292	3279	3307	3311	4600	4835	5467	6056	6860	3770	2413
MEAN	126	143	106	107	118	148	161	176	202	221	122	80.4
MAX	216	197	137	137	128	178	175	269	282	298	173	86
MIN	81	123	86	97	102	107	150	146	165	105	82	66

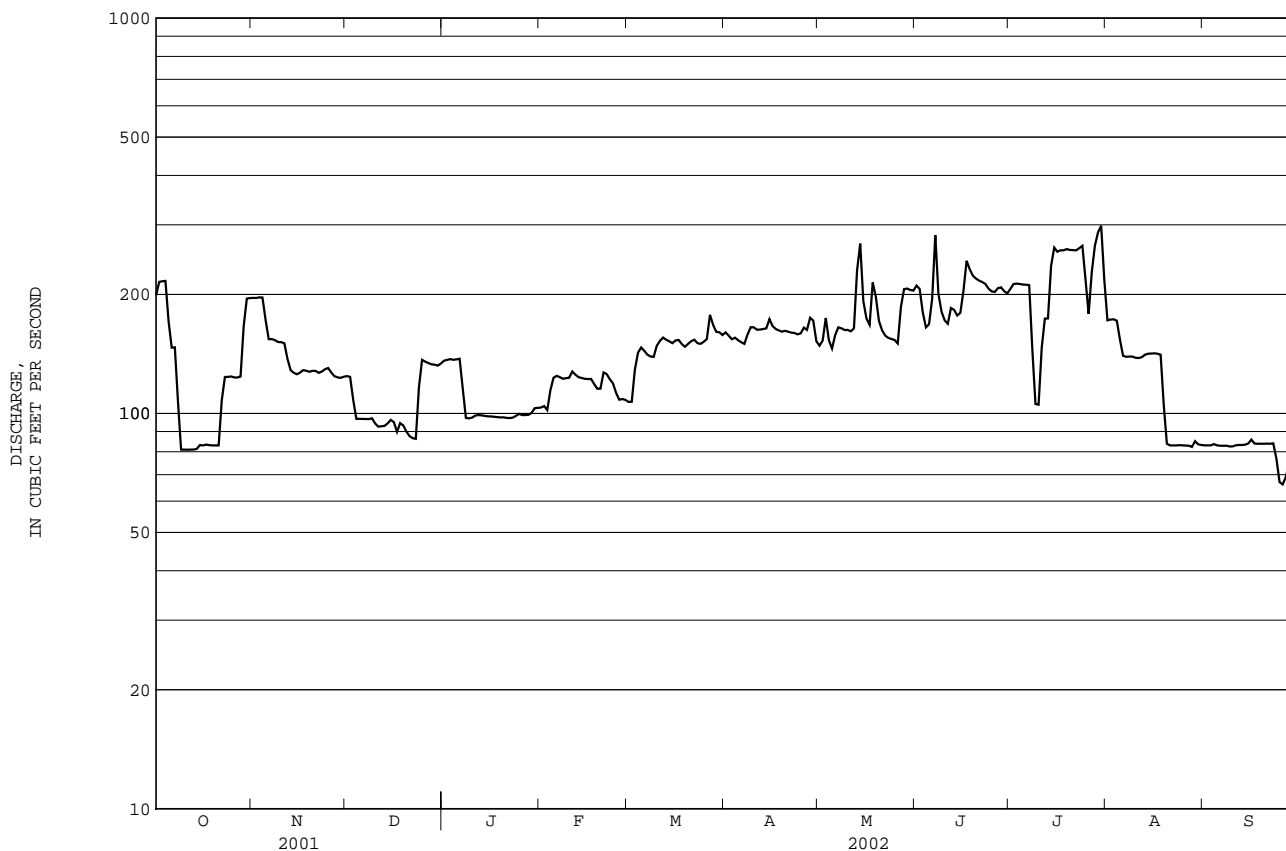
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2002, BY WATER YEAR (WY)

	MEAN	188	251	250	215	211	265	445	297	277	219	228	166
MAX	1080	794	655	597	729	668	1134	673	903	720	509	490	
(WY)	1956	1956	1957	1978	1976	1968	1958	1983	1984	1972	1969	1973	
MIN	34.2	52.1	89.0	41.7	57.4	106	122	94.3	35.6	15.8	12.3	25.0	
(WY)	1969	1965	1965	1981	1977	1989	1985	1985	1957	1957	1957	1967	

## 01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1956 - 2002	
ANNUAL TOTAL	75916		52082		251	
ANNUAL MEAN	208		143		384	
HIGHEST ANNUAL MEAN					102	
LOWEST ANNUAL MEAN					1956	
HIGHEST DAILY MEAN	1310	Apr 19	298	Jul 30	7310	Oct 16 1955
LOWEST DAILY MEAN	78	Sep 7	66	Sep 26	2.7	Oct 5 1960
ANNUAL SEVEN-DAY MINIMUM	81	Oct 9	70	Sep 24	3.8	Oct 1 1960
MAXIMUM PEAK FLOW			363	Jun 7	10600	Oct 16 1955
MAXIMUM PEAK STAGE			4.44	Jun 7	12.47	Oct 16 1955
INSTANTANEOUS LOW FLOW			a65	Sep 25	0.90	Jul 21 1960
10 PERCENT EXCEEDS	318		211		455	
50 PERCENT EXCEEDS	154		139		200	
90 PERCENT EXCEEDS	90		83		68	

a Also occurred Sep. 26.



## CONNECTICUT RIVER BASIN

## 01186500 STILL RIVER AT ROBERTSVILLE, CT

**LOCATION.**--Lat 41°58'04", long 73°02'04", Litchfield County, Hydrologic Unit 01080207, on left bank 1,500 ft downstream from Sandy Brook, 1 mi southeast of Robertsville, 1 mi northwest of Riverton, and 1 mi upstream from mouth.

**DRAINAGE AREA.**--85.0 mi<sup>2</sup>.

**PERIOD of RECORD.**--July 1948 to September 1967, July 1969 to current year.

**REVISED RECORDS.**--WSP 1901: 1948-60. WDR-CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 510.24 ft above sea level. Telephone telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are poor. Flow regulated by power plant, Mad River and Sucker Brook Detention Reservoirs, and Highland Lake.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 1,320 ft<sup>3</sup>/s, June 7, gage height, 5.15 ft; minimum discharge, 7.1 ft<sup>3</sup>/s, Aug. 19, 20, gage height, 1.27 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	53	39	e32	75	54	176	203	235	47	20	22
2	44	56	38	e30	90	48	156	208	148	42	41	21
3	36	52	41	48	85	223	133	361	105	30	85	26
4	59	50	46	34	69	197	143	224	77	33	48	18
5	90	52	44	28	50	119	120	168	85	36	41	21
6	83	47	33	33	e44	90	107	138	360	25	27	25
7	85	50	22	35	e42	e75	92	119	1110	26	21	13
8	81	46	21	38	e38	e68	96	105	680	31	12	12
9	81	48	28	37	e37	67	85	92	306	18	10	12
10	77	44	27	34	36	133	98	87	197	34	13	12
11	75	38	27	37	97	116	91	76	154	18	13	12
12	73	44	28	40	86	86	81	90	256	29	12	12
13	71	48	30	38	74	e75	76	405	312	16	12	12
14	69	39	43	36	61	e74	84	1040	226	25	11	11
15	84	38	61	34	48	73	172	548	254	39	9.8	11
16	84	41	47	e33	47	85	156	282	326	21	9.0	e10
17	75	38	43	e32	48	88	109	194	364	16	8.7	e16
18	70	36	124	31	46	80	93	508	233	18	8.3	e14
19	70	36	116	39	53	80	89	501	181	48	7.7	e12
20	67	36	85	38	44	85	81	296	147	130	16	e10
21	63	39	e65	36	119	109	70	220	127	70	14	9.9
22	61	37	e55	32	138	120	65	181	101	35	12	9.8
23	60	38	e50	31	109	95	84	153	95	39	10	13
24	64	60	92	39	85	88	82	134	92	53	10	13
25	62	64	94	58	74	96	89	130	82	41	13	12
26	57	73	81	58	62	96	145	117	64	29	11	12
27	53	57	59	55	59	236	121	113	77	25	9.9	43
28	55	44	e50	53	57	226	198	104	93	25	9.1	130
29	57	44	e45	60	---	185	354	102	68	27	32	74
30	53	36	e40	80	---	185	268	93	57	26	39	55
31	50	---	e34	76	---	167	---	116	---	24	25	---
TOTAL	2050	1384	1608	1285	1873	3519	3714	7108	6612	1076	610.5	673.7
MEAN	66.1	46.1	51.9	41.5	66.9	114	124	229	220	34.7	19.7	22.5
MAX	90	73	124	80	138	236	354	1040	1110	130	85	130
MIN	36	36	21	28	36	48	65	76	57	16	7.7	9.8

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2002, BY WATER YEAR (WY)

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
MEAN	122	165	185	190	197	301	365	203	128	59.7	79.6	74.8
MAX	832	569	527	503	621	699	786	577	492	276	1228	363
(WY)	1956	1956	1974	1999	1981	1953	1987	1989	1972	1972	1955	1975
MIN	16.8	24.6	37.5	15.7	47.9	106	92.9	59.4	28.9	12.1	9.32	10.3
(WY)	1958	1965	1981	1981	1980	1989	1985	1965	1995	1957	1957	1995

e Estimated.

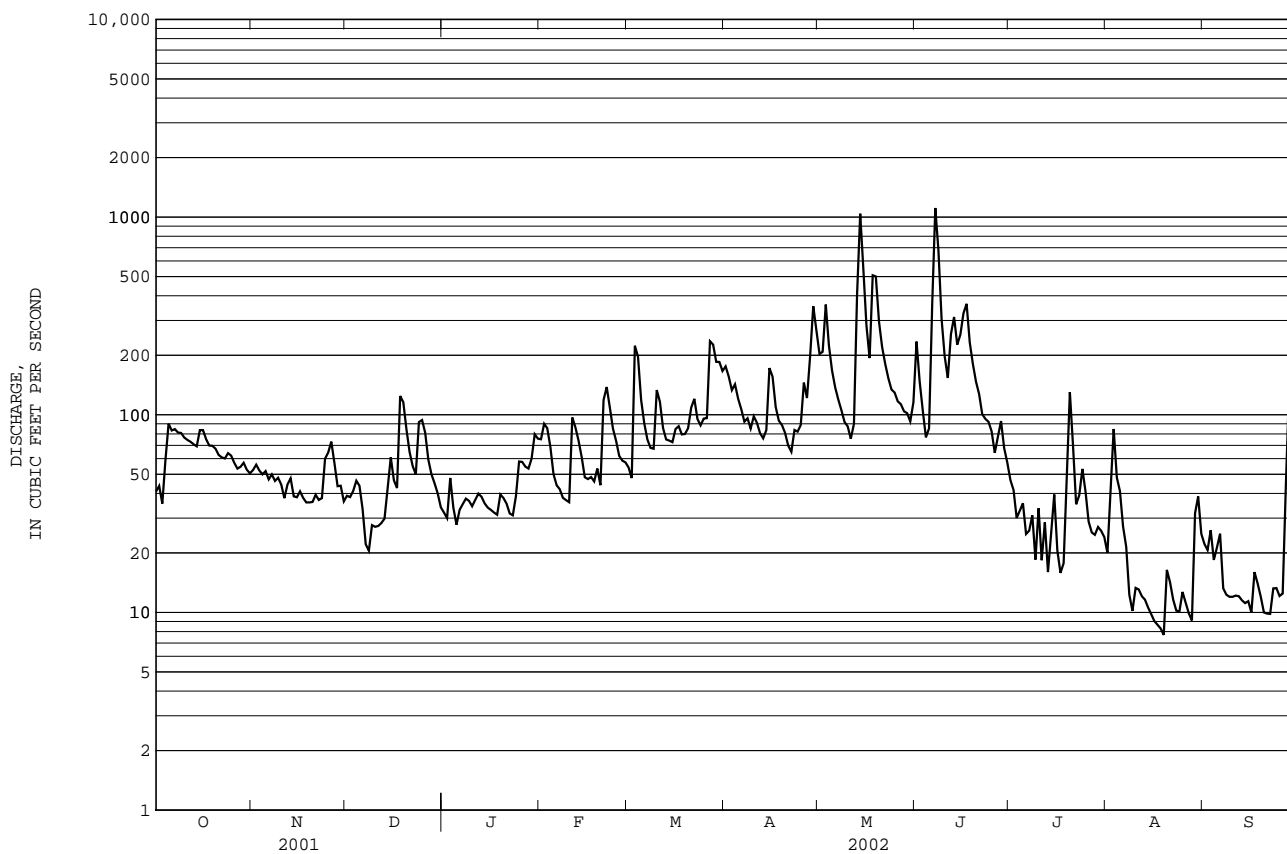
## 01186500 STILL RIVER AT ROBERTSVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1949 - 2002	
ANNUAL TOTAL	49528.3		31513.2		172	
ANNUAL MEAN	136		86.3		269	
HIGHEST ANNUAL MEAN					1955	
LOWEST ANNUAL MEAN					62.0	
HIGHEST DAILY MEAN	1440	Apr 10	1110	Jun 7	24800	Aug 19 1955
LOWEST DAILY MEAN	8.2	Sep 9	7.7	Aug 19	0.30	Sep 14 1957
ANNUAL SEVEN-DAY MINIMUM	9.8	Sep 4	9.5	Aug 13	2.1	Sep 10 1995
MAXIMUM PEAK FLOW			1320	Jun 7	<b>a</b> 44000	Aug 19 1955
MAXIMUM PEAK STAGE			5.15	Jun 7	<b>b</b> 16.48	Aug 19 1955
INSTANTANEOUS LOW FLOW			<b>c</b> 7.1	Aug 19	0.20	Sep 14 1957
10 PERCENT EXCEEDS	298		181		370	
50 PERCENT EXCEEDS	70		57		100	
90 PERCENT EXCEEDS	18		13		22	

**a** From rating curve extended above 5,600 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

**b** From floodmarks.

**c** Also occurred Aug 20.



## CONNECTICUT RIVER BASIN

## 01187300 HUBBARD RIVER NEAR WEST HARTLAND, CT

**LOCATION.**--Lat 42°02'14", long 72°56'22", Hartford County, Hydrologic Unit 01080207, on left bank at Massachusetts-Connecticut Stateline, 800 ft upstream from bridge on State Rt. 20, 0.5 mi upstream from confluence with Valley Brook, and 2.6 mi northeast of West Hartland.

**DRAINAGE AREA.**--19.9 mi<sup>2</sup>.

**PERIOD OF RECORD.**--January 1938 to September 1955, September 1956 to current year. Monthly discharge only for periods January 1938 to September 1955, October 1956 to September 1960, published in WSP 1721. Daily figures for the periods January 1938 to September 1955, September 1956 to September 1960, available upon request.

**REVISED RECORDS.**--WDR-CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder and stepped sharp-crested weir. Datum of gage is 594.57 ft above sea level. Prior to October 1, 1981, at datum 0.05 ft higher.

**REMARKS.**--Records good, except those for periods of estimated record, which are poor.

**COOPERATION.**--Gage-height record prior to May 28, 1982 furnished by Water Bureau, Metropolitan District Commission, Hartford, Connecticut.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 14	0315	*585	*4.69	No other peak greater than base discharge.			

Minimum discharge, 0.30 ft<sup>3</sup>/s, Aug. 19, 20, gage height, 0.05 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	3.6	8.2	e7.6	26	16	65	50	64	5.1	1.1	1.5
2	9.8	4.0	7.1	8.2	31	16	52	58	35	4.5	2.3	1.5
3	7.6	4.1	6.4	9.5	24	81	40	116	23	4.0	3.5	1.4
4	7.1	4.4	6.0	13	19	65	36	64	17	3.5	2.0	2.0
5	6.6	4.2	5.8	8.2	13	38	29	43	18	3.5	1.6	1.7
6	6.3	4.1	5.5	6.9	e11	30	26	33	57	2.7	1.4	1.1
7	5.9	4.4	5.2	9.9	e10	24	22	27	302	2.3	1.1	0.83
8	5.2	4.6	5.0	9.2	e9.5	22	20	23	114	2.2	0.98	0.73
9	4.8	4.3	5.5	8.4	e9.5	19	19	19	65	2.2	0.83	0.70
10	4.5	4.4	5.5	e7.5	10	48	20	18	43	2.1	0.80	0.61
11	4.3	4.1	5.6	e7.2	31	37	18	15	30	1.9	0.76	0.49
12	4.0	3.9	6.0	e6.8	27	28	16	19	33	1.6	0.76	0.39
13	3.7	4.5	6.9	e6.5	18	24	16	187	47	1.4	0.72	0.42
14	3.4	4.4	12	e6.3	14	22	18	325	39	1.4	0.69	0.40
15	5.9	4.3	20	e6.5	e12	19	47	125	57	2.4	0.60	0.42
16	6.1	4.0	13	e6.7	e11	24	39	75	84	2.4	0.53	2.6
17	5.2	3.7	12	e7.0	e10.5	25	28	57	101	1.6	0.49	2.1
18	4.6	3.7	52	7.6	e10	22	21	150	60	1.4	0.43	1.3
19	4.1	3.4	40	8.5	e11	21	20	124	40	2.7	0.38	0.94
20	4.0	3.8	24	7.1	13	22	20	76	29	5.8	1.1	1.1
21	4.0	4.0	18	6.7	52	26	17	56	22	3.7	0.70	1.6
22	3.8	3.9	13	e6.5	41	31	16	44	19	2.6	0.53	7.0
23	3.8	3.7	12	e6.2	30	27	21	35	18	2.6	0.52	12
24	3.8	4.1	23	e6.7	23	22	18	31	15	3.3	0.60	9.8
25	3.6	5.2	23	e7.0	19	25	19	24	11	2.4	1.0	8.7
26	3.3	7.2	17	e7.5	18	27	38	21	9.7	2.1	0.76	8.3
27	3.2	6.7	13	e8.0	19	92	27	24	9.5	1.9	0.59	15
28	3.1	5.9	11	14	17	79	54	24	8.7	2.0	0.43	33
29	3.1	6.2	10	19	---	64	86	31	6.8	2.1	2.8	16
30	3.1	7.4	8.1	33	---	70	58	22	5.9	1.8	3.9	11
31	3.1	---	e7.2	30	---	58	---	27	---	1.4	2.0	---
TOTAL	152.0	136.2	407.0	303.2	539.5	1124	926	1943	1383.6	80.6	35.90	144.63
MEAN	4.90	4.54	13.1	9.78	19.3	36.3	30.9	62.7	46.1	2.60	1.16	4.82
MAX	11	7.4	52	33	52	92	86	325	302	5.8	3.9	33
MIN	3.1	3.4	5.0	6.2	9.5	16	16	15	5.9	1.4	0.38	0.39
CFSM	0.25	0.23	0.66	0.49	0.97	1.82	1.55	3.15	2.32	0.13	0.06	0.24
IN.	0.28	0.25	0.76	0.57	1.01	2.10	1.73	3.63	2.59	0.15	0.07	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

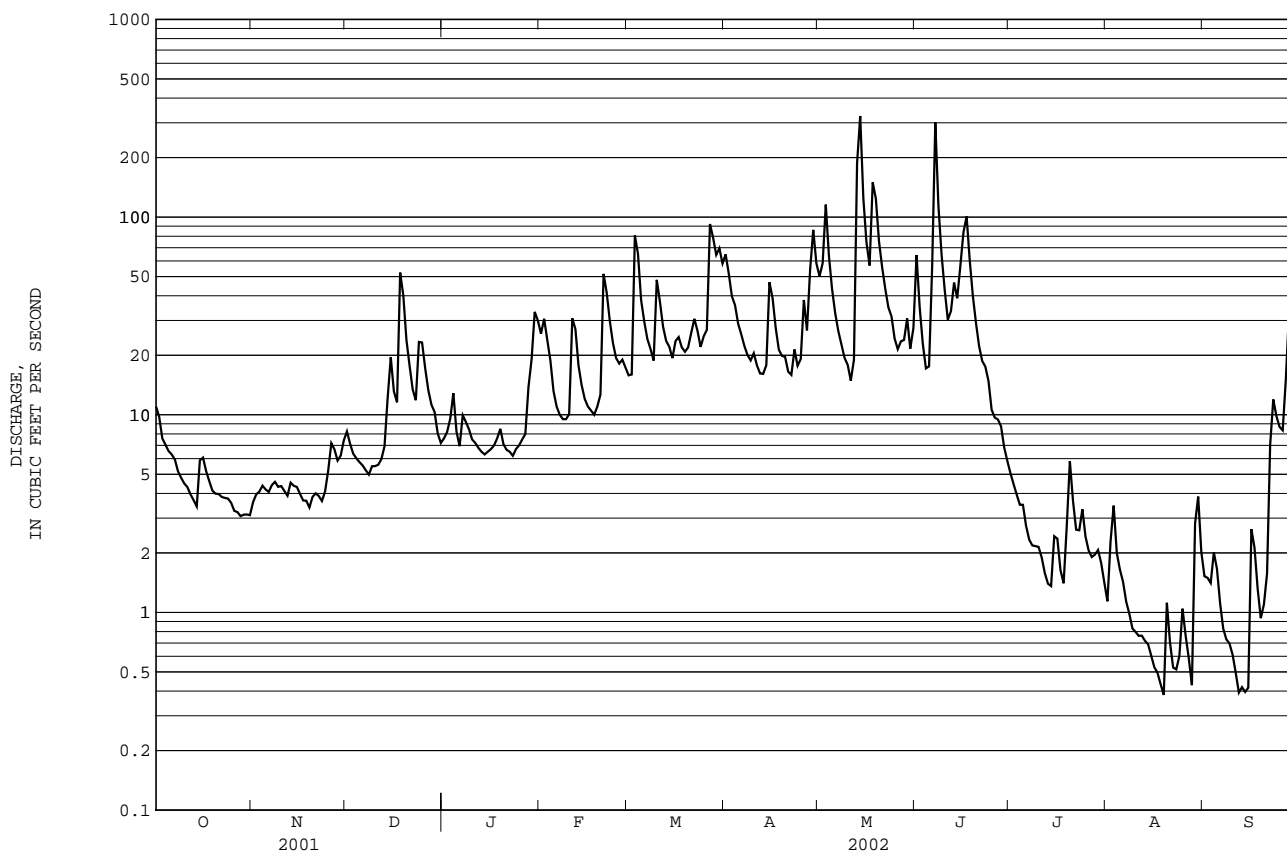
	MEAN	20.9	41.0	45.4	39.8	40.5	81.1	94.5	50.0	29.1	12.3	13.5	13.6
MAX	101	103	132	117	165	193	230	145	124	61.8	270	88.7	
(WY)	1997	1996	1974	1996	1981	1953	1993	1989	1972	1969	1955	1975	
MIN	1.41	4.54	8.25	3.47	6.64	22.0	24.2	12.2	3.18	1.12	0.57	0.81	
(WY)	1965	2002	1947	1981	1980	1941	1999	1980	1957	1971	1957	1953	

e Estimated.

## 01187300 HUBBARD RIVER NEAR WEST HARTLAND, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1939 - 2002	
ANNUAL TOTAL	11734.74		7175.63		40.1	
ANNUAL MEAN	32.1		19.7		64.3	
HIGHEST ANNUAL MEAN					16.2	
LOWEST ANNUAL MEAN					1955	
HIGHEST DAILY MEAN	519	Mar 22	325	May 14	5000	Aug 19 1955
LOWEST DAILY MEAN	0.52	Sep 9	0.38	Aug 19	0.19	Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	0.70	Sep 4	0.49	Sep 9	0.21	Aug 15 1957
MAXIMUM PEAK FLOW			585	May 14	a10500	Aug 19 1955
MAXIMUM PEAK STAGE			4.69	May 14	b16.50	Aug 19 1955
INSTANTANEOUS LOW FLOW			d0.30	Aug 19	c0.30	Aug 19 2002
ANNUAL RUNOFF (CFSM)	1.62		0.99		2.01	
ANNUAL RUNOFF (INCHES)	21.94		13.41		27.37	
10 PERCENT EXCEEDS	81		49		92	
50 PERCENT EXCEEDS	13		8.4		19	
90 PERCENT EXCEEDS	1.6		1.4		2.3	

- a From rating curve extended above 300 ft<sup>3</sup>/s, on basis of contracted-opening measurement of peak flow.  
b From high water marks in the gage well.  
c Occurred frequently during low-flow periods.  
d Also occurred Aug. 20.



## CONNECTICUT RIVER BASIN

## 01188000 BURLINGTON BROOK NEAR BURLINGTON, CT

**LOCATION.**--Lat 41°47'10", long 72°57'55", Hartford County, Hydrologic Unit 01080207, on left bank 1.2 mi north of Burlington, 3 mi upstream from mouth, 2,000 ft east of the intersection of Covey Rd. and Hotchkiss Rd., and 3 mi southwest of Collinsville.

**DRAINAGE AREA.**--4.10 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--September 1931 to current year.

**REVISED RECORDS.**--WSP 1301: 1933-45 (M). WDR-CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder and compound sharp-crested weir. Datum of gage is 714.00 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Occasional regulation at low flow.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 140 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jun 7	0515	*157	*5.26	No other peak greater than base discharge.			

Minimum discharge, 0.33 ft<sup>3</sup>/s, Sept. 13, gage height, 1.70 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.1	1.6	e1.2	3.6	2.6	7.4	e8.8	22	1.3	0.79	1.2
2	2.6	1.1	1.4	e1.2	5.8	2.3	6.1	e8.6	6.3	1.3	1.9	3.2
3	1.7	1.2	1.3	e1.2	3.5	17	5.0	e13	4.3	1.2	4.4	3.5
4	1.3	1.6	1.2	e1.1	e2.8	8.6	6.2	7.5	3.6	1.0	1.8	1.9
5	1.1	1.4	1.2	e1.1	e2.3	4.7	4.8	6.2	5.0	0.92	1.2	1.6
6	1.1	1.4	1.2	e1.1	e2.0	3.9	4.4	5.5	23	0.88	0.98	1.00
7	1.1	1.1	1.2	2.0	e1.9	3.7	4.1	5.0	83	0.91	0.84	0.81
8	1.1	1.1	1.1	e1.8	e1.8	3.2	3.9	4.6	17	1.0	0.79	0.69
9	1.0	1.1	1.4	e1.7	e1.7	3.0	3.9	4.3	9.5	1.0	0.71	0.71
10	1.0	1.0	1.4	e1.6	e1.6	5.0	4.9	4.5	7.2	1.4	0.67	0.66
11	0.97	1.1	1.5	2.5	9.9	4.1	4.3	3.9	5.7	1.2	0.66	0.54
12	0.95	1.1	1.7	2.9	5.0	3.2	3.8	4.6	5.2	1.1	0.63	0.46
13	0.97	1.1	2.0	2.9	3.5	3.1	4.3	26	6.2	0.97	1.7	0.40
14	0.92	1.1	2.8	2.7	2.8	3.1	4.4	42	7.1	0.88	1.2	0.48
15	2.6	1.1	3.4	2.3	2.5	2.8	21	12	11	0.86	0.65	0.56
16	2.1	1.0	2.6	e2.1	2.5	3.4	11	7.9	8.6	0.87	0.57	1.2
17	1.8	1.0	2.2	e2.0	2.8	3.7	6.5	6.6	7.7	0.84	0.49	0.93
18	1.6	1.0	9.3	e2.0	3.1	3.2	5.3	32	5.1	0.84	0.49	0.72
19	1.1	1.1	5.5	e1.9	2.7	3.9	4.5	16	4.2	8.1	0.40	0.64
20	1.1	1.2	3.2	e1.8	2.4	5.0	4.3	8.8	3.8	7.6	3.8	0.65
21	1.1	1.3	2.8	e2.6	9.5	7.1	4.1	7.2	3.4	2.6	1.6	0.65
22	1.1	1.1	2.2	1.6	5.7	8.5	4.3	6.3	3.1	1.6	0.82	0.64
23	1.1	1.1	1.9	1.8	4.0	5.3	5.9	5.3	2.9	1.7	0.76	0.62
24	1.1	1.2	5.9	3.2	3.3	5.1	4.4	4.8	2.6	4.5	0.73	0.50
25	1.1	1.5	4.3	4.6	3.0	7.2	5.1	4.5	2.1	2.3	0.96	0.55
26	0.94	2.5	e2.8	3.3	2.8	6.9	9.6	4.2	2.0	1.6	0.76	0.59
27	1.0	1.8	e2.2	3.0	2.8	26	5.4	4.3	2.1	1.4	e0.61	3.2
28	0.97	1.5	e1.8	3.2	2.9	11	20	4.1	1.8	1.4	0.53	4.3
29	1.00	1.5	e1.5	3.8	---	6.9	25	4.1	1.7	2.2	3.2	2.2
30	1.1	1.7	e1.4	4.3	---	6.2	10	3.9	1.5	2.4	4.2	1.2
31	1.0	---	e1.3	3.5	---	5.4	---	12	---	1.5	1.7	---
TOTAL	40.22	38.1	75.3	72.0	98.2	185.1	213.9	288.5	268.7	57.37	40.54	36.30
MEAN	1.30	1.27	2.43	2.32	3.51	5.97	7.13	9.31	8.96	1.85	1.31	1.21
MAX	2.6	2.5	9.3	4.6	9.9	26	25	42	83	8.1	4.4	4.3
MIN	0.92	1.0	1.1	1.1	1.6	2.3	3.8	3.9	1.5	0.84	0.40	0.40
CFSM	0.32	0.31	0.59	0.57	0.86	1.46	1.74	2.27	2.18	0.45	0.32	0.30
IN.	0.36	0.35	0.68	0.65	0.89	1.68	1.94	2.62	2.44	0.52	0.37	0.33

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

	MEAN	5.29	8.11	8.89	9.19	9.07	16.2	15.1	10.2	6.57	3.77	3.81	4.04
MAX	37.6	28.4	27.1	25.7	25.0	39.4	38.8	30.1	29.2	15.2	36.0	19.7	
(WY)	1956	1956	1974	1996	1981	1983	1989	1982	1938	1955	1999		
MIN	1.02	1.23	2.13	1.07	2.02	5.97	4.26	3.42	1.45	0.80	0.65	0.77	
(WY)	1942	1932	1932	1981	1934	2002	1985	1965	1957	1966	1999	1964	

e Estimated.

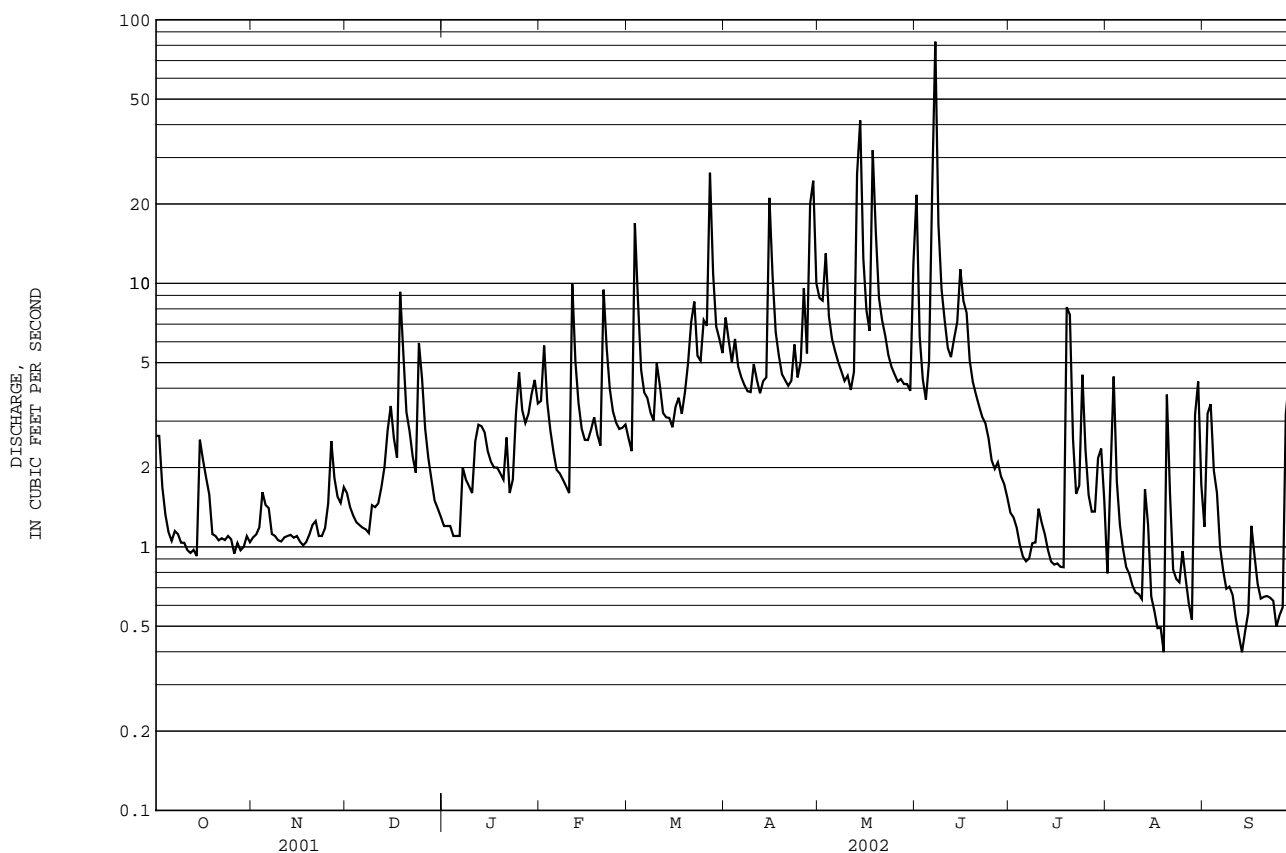


## 01188000 BURLINGTON BROOK NEAR BURLINGTON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1932 - 2002	
ANNUAL TOTAL	2613.50		1414.23		8.35	
ANNUAL MEAN	7.16		3.87		13.2	
HIGHEST ANNUAL MEAN					3.51	
LOWEST ANNUAL MEAN					1973	
HIGHEST DAILY MEAN	160	Mar 22	83	Jun 7	673	Aug 19 1955
LOWEST DAILY MEAN	0.65	Sep 8	0.40	Aug 19	0.16	Sep 2 1995
ANNUAL SEVEN-DAY MINIMUM	0.73	Sep 3	0.54	Sep 9	0.24	Sep 2 1995
MAXIMUM PEAK FLOW			157	Jun 7	a1690	Aug 19 1955
MAXIMUM PEAK STAGE			5.26	Jun 7	b9.22	Aug 19 1955
INSTANTANEOUS LOW FLOW			0.33	Sep 13	0.08	Sep 4 1995
ANNUAL RUNOFF (CFSM)	1.75		0.95		2.04	
ANNUAL RUNOFF (INCHES)	23.71		12.83		27.67	
10 PERCENT EXCEEDS	16		7.4		17	
50 PERCENT EXCEEDS	3.2		2.2		4.9	
90 PERCENT EXCEEDS	1.0		0.84		1.3	

a From rating curve extended above 320 ft<sup>3</sup>/s on basis of computation of peak flow through orifice and over weir abutments at 676 ft<sup>3</sup>/s and 1,690 ft<sup>3</sup>/s.

b From high water marks.



## CONNECTICUT RIVER BASIN

## 01188000 BURLINGTON BROOK NEAR BURLINGTON, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1956, 1968 to current year.

PERIOD of DAILY RECORD.--

WATER TEMPERATURES: January 1971 to January 1972.

EXTREMES FOR PERIOD of DAILY RECORD.--

WATER TEMPERATURES: Maximum, 23.5°C July 27, Aug. 9, 1971; minimum, 0.0°C on many days during winter periods.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 15...	0915	2.5	121	7.5	13.5	14.0	3.7	9.3	93	107	111	27	6.92	
JAN 15...	1220	2.3	137	6.6	3.5	3.0	2.6	13.4	103	28	19	25	6.02	
APR 24...	1245	4.4	102	6.7	14.0	10.0	1.3	10.6	96	32	3k	19	4.30	
JUL 08...	0930	1.1	120	7.1	25.0	18.5	6.5	8.8	96	46	46	25	6.38	
Date	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	
	OCT 15...	2.43	10.9	1.90	0	28	23	6.4	17.4	E.1	11.7	68	78	<.008
	JAN 15...	2.42	13.6	1.35	0	17	14	7.7	22.7	<.1	10.7	82	82	<.008
	APR 24...	1.96	9.70	.95	0	12	10	6.4	15.2	<.1	7.92	66	61	E.004
	JUL 08...	2.21	11.0	1.47	0	27	22	5.4	15.2	E.1	10.1	72	72	.015
Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	
	OCT 15...	.14	.19	.17	.35	.32	.49	.015	E.002	<.02	6	<.05	11	<.06
	JAN 15...	.25	.20	.14	.34	.34	.60	.007	E.004	<.02	10	E.03	10	<.06
	APR 24...	.08	.07	.21	.28	.30	.36	.011	.006	<.02	29	.18	8	<.06
	JUL 08...	.24	.13	.24	.37	.28	.61	.017	.009	<.02	15	E.03	9	<.06
Date	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	
	OCT 15...	<.04	<.8	.19	.3	154	<.08	222	E.1	.41	<1	2	<.02	3.7
	JAN 15...	E.02	<.8	.43	.2	299	E.07	294	E.1	.46	<1	3	<.02	1.6
	APR 24...	<.04	<.8	.21	.5	384	.15	126	E.1	.53	<1	5	E.02	3.3
	JUL 08...	<.04	<.8	.15	.3	871	.16	176	.3	.50	<1	<1	E.01	3.3

Value qualifier codes used in this report:

k -- Counts outside acceptable range

## Science Challenge

What percentage of the world's freshwater is stored as glacial ice?  
What is the largest glacier in the United States?

Find more earth science information on our website at <http://www.usgs.gov>

About 70 percent of the world's freshwater is stored as glacial ice. That's equivalent to about 60 years of precipitation over the entire globe. The Bering Glacier near Cordova, Alaska is the largest glacier in the United States.

## CONNECTICUT RIVER BASIN

## 01188090 FARMINGTON RIVER AT UNIONVILLE, CT

**LOCATION.**--Lat 41°45'21", long 72°53'14", Hartford County, Hydrologic Unit 01080207, at right bank upstream from steel truss highway bridge on State Rt. 177 at Unionville, 4.1 mi downstream from Burlington Brook and 3.0 mi upstream from Pequabuck River.

**DRAINAGE AREA.**--378 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

**PERIOD OF RECORD.**--October 1977 to current year.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 178.20 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow regulated by Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, and Nepaug Reservoirs, and by diversion for municipal supply from Barkhamsted and Nepaug Reservoirs.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Aug. 19, 1955 reached a stage of 32.9 ft from floodmark, discharge, 140,000 ft<sup>3</sup>/s, by slope-area measurement 3.8 mi upstream.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 3,010 ft<sup>3</sup>/s, June 7, gage height, 8.43 ft; minimum discharge, 61 ft<sup>3</sup>/s, Sept. 26, gage height, 4.31 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	265	188	e172	204	176	442	504	656	284	216	102
2	286	267	185	e170	231	168	424	473	459	314	238	137
3	281	271	207	e165	205	463	386	677	376	293	342	109
4	275	266	145	e163	e194	476	386	526	310	251	287	126
5	304	259	132	e161	e183	358	359	432	308	261	246	97
6	256	218	145	e156	e176	302	331	383	696	243	206	91
7	246	216	130	257	e174	278	310	374	2440	249	189	92
8	240	237	115	153	e170	260	308	353	1640	239	179	83
9	183	194	134	143	e165	249	315	333	831	156	164	79
10	182	214	131	133	163	329	336	325	561	128	146	76
11	179	207	124	138	271	336	326	304	455	124	160	75
12	152	206	126	146	249	303	312	311	490	197	158	69
13	147	185	131	148	233	287	305	751	811	198	155	74
14	119	186	147	143	196	277	311	2000	648	203	159	204
15	183	183	189	135	196	262	488	1120	798	315	242	239
16	177	173	173	133	181	278	444	694	702	299	154	210
17	172	190	156	131	190	295	371	521	836	276	151	65
18	153	187	270	126	187	285	328	938	606	272	149	93
19	151	183	308	119	168	277	317	1060	512	461	146	79
20	163	190	233	e113	183	306	320	709	453	521	153	73
21	175	186	200	e111	295	344	294	558	406	383	84	68
22	229	183	180	e106	330	379	288	525	374	318	83	66
23	409	180	157	e102	287	327	310	555	354	342	79	67
24	421	200	223	133	244	307	304	462	350	400	80	65
25	422	218	282	160	221	314	306	386	323	370	79	65
26	409	237	252	168	194	331	406	374	308	328	79	64
27	399	217	e221	162	193	613	368	373	301	230	84	83
28	391	195	e203	160	184	575	493	412	321	316	77	207
29	315	191	e190	165	---	472	778	408	309	345	116	178
30	264	196	e181	190	---	439	600	394	277	353	172	137
31	263	---	e174	207	---	431	---	471	---	324	130	---
TOTAL	7811	6300	5632	4669	5867	10497	11266	17706	17911	8993	4903	3173
MEAN	252	210	182	151	210	339	376	571	597	290	158	106
MAX	422	271	308	257	330	613	778	2000	2440	521	342	239
MIN	119	173	115	102	163	168	288	304	277	124	77	64

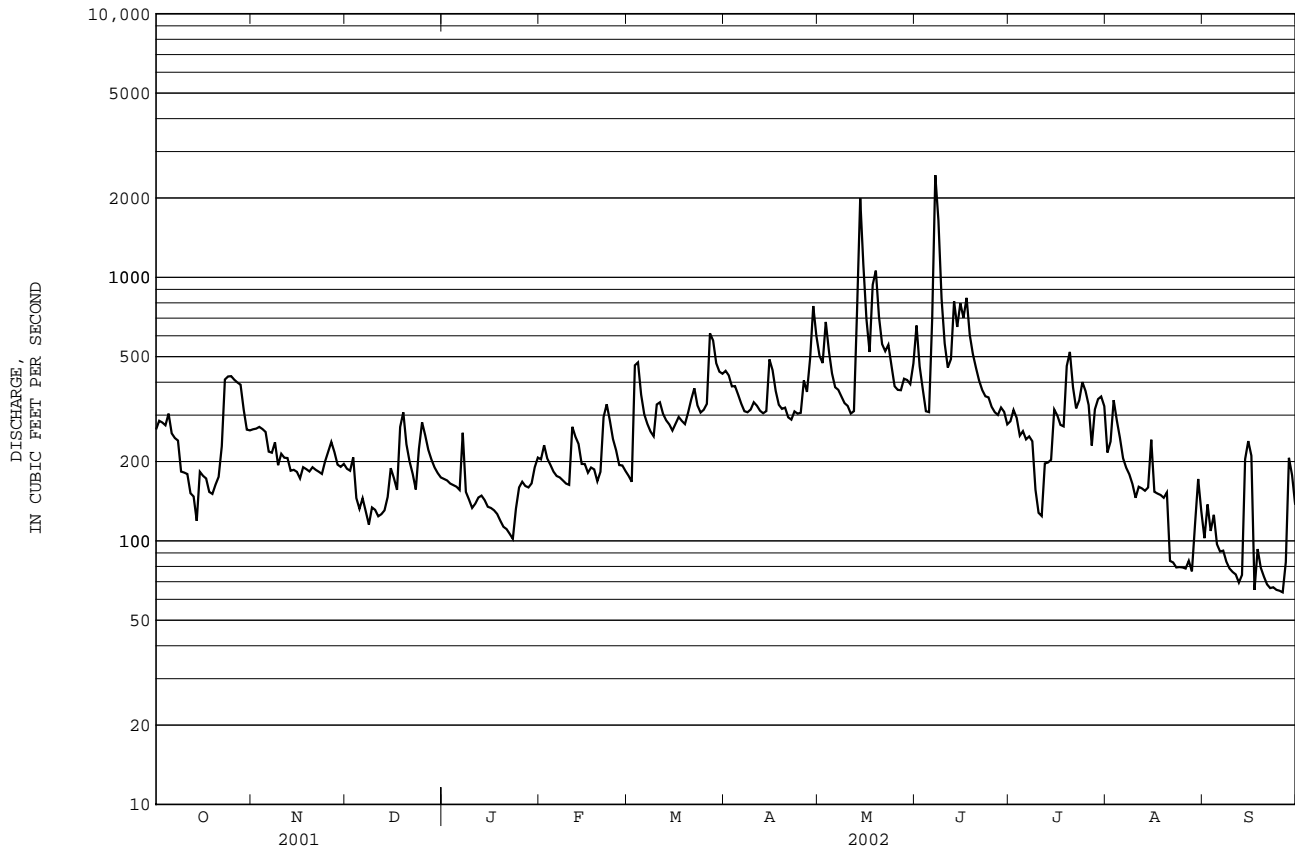
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2002, BY WATER YEAR (WY)

	MEAN	467	578	610	655	640	974	1261	808	695	365	416	384
MAX	1211	1172	2031	1661	1162	1907	2902	1902	2149	717	763	595	
(WY)	1997	1997	1997	1978	1996	1983	1983	1989	1982	2000	1990	1999	
MIN	175	210	182	135	201	289	269	238	183	159	158	106	
(WY)	1981	2002	2002	1981	1980	1989	1985	1985	1985	1985	2002	2002	

e Estimated.

## 01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1978 - 2002	
ANNUAL TOTAL	187963		104728			
ANNUAL MEAN	515		287		654	
HIGHEST ANNUAL MEAN					954	
LOWEST ANNUAL MEAN					287	
HIGHEST DAILY MEAN	3550	Apr 10	2440	Jun 7	13600	Mar 22 1980
LOWEST DAILY MEAN	107	Sep 19	64	Sep 26	64	Sep 26 2002
ANNUAL SEVEN-DAY MINIMUM	125	Sep 14	67	Sep 20	67	Sep 20 2002
MAXIMUM PEAK FLOW			3010	Jun 7	20300	Mar 23 1980
MAXIMUM PEAK STAGE			8.43	Jun 7	16.57	Mar 23 1980
INSTANTANEOUS LOW FLOW			61	Sep 26	61	Sep 26 2002
10 PERCENT EXCEEDS	1150		474		1290	
50 PERCENT EXCEEDS	335		238		460	
90 PERCENT EXCEEDS	173		118		207	



## CONNECTICUT RIVER BASIN

## 01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1977-80, 1984 to current year.

REMARKS.--Water-quality records for this site published under station 01188085 from water year 1984 to water year 1990.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 15...	1130	190	128	7.7	18.5	16.0	.98	10.2	104	254k	508	29	7.70	
JAN 15...	1010	134	148	7.1	4.5	1.5	1.3	13.8	99	4k	11k	30	7.75	
APR 24...	0950	305	126	7.2	13.5	8.5	1.1	12.9	109	16k	6k	26	6.59	
JUL 08...	1145	204	117	7.3	29.0	20.0	.76	10.1	111	36	140	23	6.20	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 15...	2.36	12.3	1.24	0	22	18	6.3	22.0	E.1	2.77	76	74	<.008	
JAN 15...	2.47	14.8	1.31	0	20	16	6.4	26.1	E.1	5.10	86	86	.018	
APR 24...	2.25	11.5	1.04	0	16	13	6.8	20.9	<.1	4.84	77	75	.013	
JUL 08...	1.89	11.0	.92	0	18	15	6.2	19.1	E.1	2.81	66	70	<.008	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
OCT 15...	.17	<.04	.21	.19	.38	.021	.011	<.02	8	.05	15	<.06	<.04	
JAN 15...	.37	E.03	.21	.19	.58	.022	.017	E.01	9	E.04	15	<.06	<.04	
APR 24...	.14	<.04	.22	.21	.35	.019	.010	<.02	14	.23	12	<.06	<.04	
JUL 08...	.06	<.04	.19	.15	.25	.017	.012	<.02	20	.06	12	<.06	<.04	
Date		CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	
OCT 15...	<.8	.03	.9	85	.09	7.3	E.1	.22	<1	<1	<.02	4.1		
JAN 15...	<.8	.03	.6	102	.11	7.8	E.1	.25	<1	2	E.02	3.2		
APR 24...	<.8	.06	.8	119	.16	12.7	E.1	.32	<1	3	.03	2.9		
JUL 08...	<.8	.04	.7	119	.12	6.4	E.2	.26	<1	1	.03	4.2		

Value qualifier codes used in this report:

k -- Counts outside acceptable range

## Science Challenge

What is the world's deepest lake?

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Lake Baikal, located in the south-central part of Siberia is the deepest lake in the world at 5,712 feet in depth.

## CONNECTICUT RIVER BASIN

## 01189000 PEQUABUCK RIVER AT FORESTVILLE, CT

**LOCATION.**--Lat 41°40'23", long 72°54'04", Hartford County, Hydrologic Unit 01080207, on left bank 500 ft upstream from bridge on Central St., 0.2 mi downstream from Copper Mine Brook, and 6.5 mi upstream from mouth.

**DRAINAGE AREA.**--45.8 mi<sup>2</sup>.

**PERIOD OF RECORD.**--Discharge: July 1941 to current year.

Water-quality records: Water years 1956, 1960, 1971-72.

**REVISED RECORDS.**--WSP 971: 1941-42. WSP 1111: 1947. WSP 1901: 1959-60. WDR-CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 197.72 ft above sea level.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by Whigville Reservoir and mills upstream. Diversion for municipal supply of City of New Britain from Whigville Reservoir, Whites Bridge wells, and Copper Mine Brook.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of September 1938 reached a stage of about 7.3 ft, from floodmarks, discharge, 3,800 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow and computation of peak flow over dam.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 1,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
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No peak greater than base discharge.

Minimum discharge, 12 ft<sup>3</sup>/s, Nov. 24, gage height, 1.26 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	18	22	21	57	23	52	54	148	31	20	21
2	37	19	22	21	47	23	37	61	59	31	76	110
3	32	26	21	21	37	149	43	70	43	29	54	34
4	31	18	21	22	35	49	49	47	36	27	24	65
5	28	18	21	23	29	35	36	40	66	27	22	26
6	31	21	22	24	24	32	34	37	113	26	22	23
7	27	22	23	27	24	30	32	35	374	27	21	22
8	26	21	22	26	24	29	31	34	174	28	21	21
9	26	22	30	25	23	29	30	34	113	34	21	20
10	26	22	24	28	28	59	37	37	91	30	21	21
11	25	22	24	32	60	34	30	32	71	25	21	21
12	25	22	25	29	30	30	29	43	64	23	21	21
13	25	22	24	33	26	29	31	205	59	23	21	21
14	27	22	29	28	24	28	31	232	85	23	21	20
15	48	22	28	26	24	27	54	100	131	23	20	37
16	26	22	24	26	24	37	49	73	106	23	20	31
17	26	22	25	26	28	29	36	62	85	22	20	21
18	23	22	75	26	25	36	30	198	64	22	20	21
19	22	22	35	25	23	34	29	138	56	30	20	20
20	22	25	28	26	24	49	28	94	52	24	46	20
21	22	18	25	25	76	67	27	82	48	21	21	20
22	22	18	25	26	33	58	35	72	44	21	20	20
23	20	17	24	30	27	41	37	68	43	45	20	24
24	19	17	62	35	25	38	28	59	40	27	25	19
25	20	29	30	38	24	36	34	51	31	22	22	20
26	20	31	26	34	24	47	53	46	30	21	19	27
27	20	20	25	32	27	177	35	46	29	21	20	72
28	19	20	24	34	24	65	71	51	33	30	21	41
29	20	18	23	34	---	46	111	50	33	28	120	24
30	20	20	23	36	---	41	67	41	32	20	30	22
31	19	---	22	36	---	37	---	107	---	20	22	---
TOTAL	823	638	854	875	876	1444	1226	2299	2353	804	872	885
MEAN	26.5	21.3	27.5	28.2	31.3	46.6	40.9	74.2	78.4	25.9	28.1	29.5
MAX	69	31	75	38	76	177	111	232	374	45	120	110
MIN	19	17	21	21	23	23	27	32	29	20	19	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2002, BY WATER YEAR (WY)

	1942	1950	1981	1981	2002	1985	1985	1965	1957	1957	1944	1986
MEAN	50.4	68.7	81.7	86.3	92.3	146	143	101	69.5	42.3	42.6	40.4
MAX	372	303	247	232	214	391	463	396	368	99.4	356	167
(WY)	1956	1956	1997	1979	1951	1983	1983	1989	1982	1972	1955	1975
MIN	11.6	17.4	18.5	11.7	31.3	39.9	26.5	27.0	22.1	18.7	14.7	14.8
(WY)	1942	1950	1981	1981	2002	1985	1985	1965	1957	1957	1944	1986



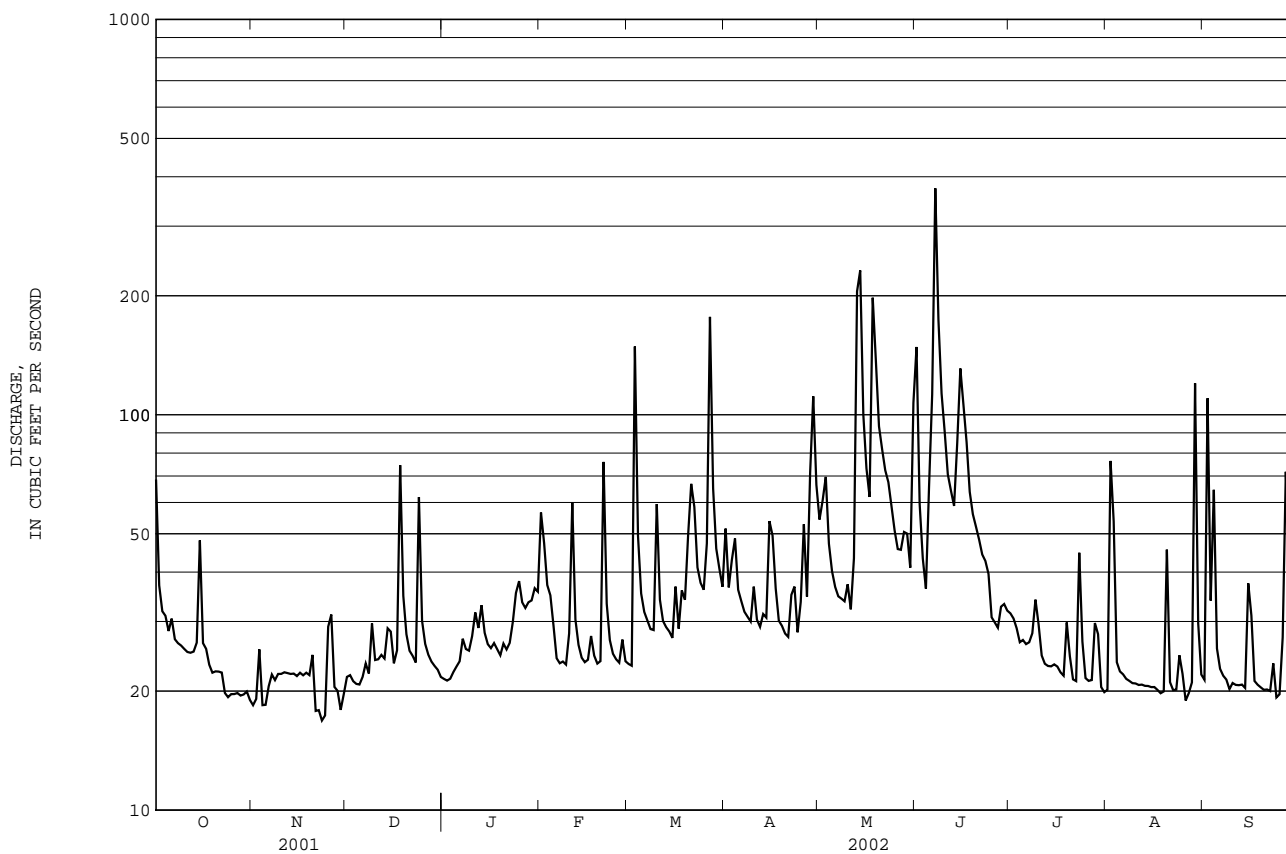
## 01189000 PEQUABUCK RIVER AT FORESTVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1942 - 2002	
ANNUAL TOTAL	25096		13949		80.2	
ANNUAL MEAN	68.8		38.2		136	
HIGHEST ANNUAL MEAN					29.9	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	984	Mar 22	374	Jun 7	6500	Aug 19 1955
LOWEST DAILY MEAN	17	Nov 23	17	Nov 23	7.0	Oct 26 1941
ANNUAL SEVEN-DAY MINIMUM	19	Oct 27	19	Oct 27	9.2	Oct 20 1941
MAXIMUM PEAK FLOW			446	May 31	a11700	Aug 19 1955
MAXIMUM PEAK STAGE			2.80	May 31	b13.22	Aug 19 1955
INSTANTANEOUS LOW FLOW			12	Nov 24	c6.5	Sep 21 1941
10 PERCENT EXCEEDS	158		66		160	
50 PERCENT EXCEEDS	38		27		49	
90 PERCENT EXCEEDS	22		20		20	

a From rating curve extended above 2,100 ft<sup>3</sup>/s on basis of slope-area measurement at gage height of 7.3 and 13.22 ft.

b From high water mark in gage well.

c Also occurred on Sep. 22, 1941.



## CONNECTICUT RIVER BASIN

## 01189030 PEQUABUCK RIVER AT FARMINGTON, CT

**LOCATION.**--Lat 41°43'00", long 72°50'25", Hartford County, Hydrologic Unit 01080207, at bridge on Meadow Rd. at Farmington, and 0.2 mi upstream from Farmington River.

**DRAINAGE AREA.**--57.2 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water years 1971, 1974 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 16...	1255	38	286	7.0	17.5	15.0	4.3	9.0	89	460	420	64	18.9	
DEC 12...	0950	30	405	7.2	5.5	5.5	5.0	11.1	87	2800	338k	77	22.7	
FEB 07...	1015	30	482	7.4	4.5	4.5	3.2	11.2	88	11800k	3800	80	23.9	
APR 22...	1000	34	336	7.2	5.0	11.5	3.9	8.2	76	76	51	74	22.2	
JUN 06...	0830	96	247	6.7	22.0	18.0	2.5	6.4	68	1130	2000	52	15.7	
JUL 09...	0830	28	371	7.4	27.0	22.5	1.9	7.9	92	261k	92	79	23.6	
AUG 26...	0830	20	413	7.4	24.0	19.5	4.5	7.0	78	121	84	79	23.7	
SEP 16...	1015	60	272	7.2	24.0	21.0	5.7	8.7	100	9600k	9600k	50	15.1	
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 16...	3.96	29.6	5.28	0	61	51	16.1	37.1	.3	10.4	170	178	.046	
DEC 12...	4.79	43.2	7.50	0	61	51	21.9	55.0	.4	10.7	240	246	.050	
FEB 07...	5.02	51.6	7.76	0	83	71	35.2	67.4	.3	11.3	268	274	.260	
APR 22...	4.57	30.7	5.73	0	54	44	16.4	48.5	.2	8.64	197	189	.079	
JUN 06...	3.21	25.8	3.70	0	46	38	12.4	31.0	.2	9.39	162	163	.075	
JUL 09...	4.80	38.0	5.76	0	71	58	18.4	50.6	.3	9.22	221	221	.038	
AUG 26...	4.86	43.7	7.90	0	71	58	21.6	52.0	.38	10.3	248	245	.013	
SEP 16...	2.95	29.6	4.91	0	46	38	20.1	32.5	.2	7.09	162	168	.051	
		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 16...	3.92	.09	.61	.70	.55	4.6	.78	.65	.62	6	.17	37	<.06	
DEC 12...	7.46	.06	.87	.92	.59	8.4	1.25	1.18	1.04	6	.17	39	<.06	
FEB 07...	3.77	3.63	.47	4.1	3.8	7.9	1.19	1.04	.98	4	.15	46	<.06	
APR 22...	5.19	.21	.63	.84	.78	6.0	.91	.76	.73	8	.24	43	<.06	
JUN 06...	2.99	.12	.60	.71	.61	3.7	.56	.45	.42	13	.16	39	<.06	
JUL 09...	4.90	<.04	--	.58	.49	5.5	1.04	1.06	.99	5	.18	47	<.06	
AUG 26...	7.79	.07	.66	.72	.64	8.5	1.40	1.41	1.31	5	.24	44	<.06	
SEP 16...	3.63	.09	.74	.83	.58	4.5	.79	.66	.68	7	.38	38	<.06	

## 01189030 PEQUABUCK RIVER AT FARMINGTON, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 16...	.49	.9	.16	8.8	134	.30	53.7	2.6	5.45	<1	20	.08	6.2
DEC 12...	.61	1.8	.25	10.8	138	.40	97.3	2.3	9.20	<1	27	.11	5.7
FEB 07...	.58	1.4	.29	9.1	138	.35	138	2.9	8.81	<1	31	.23	5.3
APR 22...	.44	E.5	.21	9.1	236	.48	92.2	1.1	8.94	<1	22	.13	5.1
JUN 06...	.52	E.5	.17	7.8	307	.60	62.8	1.8	4.33	<1	20	.06	6.5
JUL 09...	.59	E.7	.18	9.6	70	.34	28.4	5.9	6.12	<1	17	.10	6.2
AUG 26...	.60	E.5	.18	11.0	63	.34	47.7	4.6	9.17	<1	20	.09	5.9
SEP 16...	.84	E.5	.15	9.7	65	.28	45.2	2.9	8.17	<1	31	.04	7.1

Value qualifier codes used in this report:  
 k -- Counts outside acceptable range

## CONNECTICUT RIVER BASIN

## 01189995 FARMINGTON RIVER AT TARIFFVILLE, CT

**LOCATION.**--Lat 41°54'30", long 72°45'40", Hartford County, Hydrologic Unit 01080207, on right bank at Tariffville, behind house at 20 Tunxis Rd., 0.3 mi downstream from bridge on State Rt. 189 and 5.5 mi upstream from gage at Rainbow.

**DRAINAGE AREA.**--577 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--January 1913 to August 1928 furnished by Farmington River Power Company. August 1928 to September 1939, October 1971 to current year.

**REVISED RECORDS.**--WSP 851: 1936. WSP 1301: 1937-39 (revised records published are included with those for "Farmington River at Rainbow, Conn."). WDR CT-76-1: 1972-75. WDR CT-80-1: Drainage area.

**GAGE.**--Water-stage recorder August 1928 to September 1939 and since October 1971. January 1913 to August 1928, staff gage on forebay of dam of Hartford Electric Light Co. Datum of gage is 130.21 ft above sea level. Telephone telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow regulated by Otis Reservoir, Colebrook River Lake, West Branch Reservoir, Mad River and Sucker Brook Detention Reservoirs, Highland Lake, Barkhamsted, East Branch, Nepaug and Whigville Reservoirs, and by diversion for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 3,640 ft<sup>3</sup>/s, June 8, gage height, 4.74 ft; minimum discharge, 153 ft<sup>3</sup>/s, Sept. 12, 14, 25, 26, gage height, 0.71 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424	355	297	e301	382	e330	780	986	1330	467	390	239
2	456	355	287	e298	434	334	788	863	1130	478	330	274
3	443	356	282	e297	e396	608	707	1120	804	492	500	377
4	420	364	295	e294	367	1020	721	1070	654	455	492	306
5	416	356	247	e291	343	743	673	838	604	413	378	300
6	415	340	241	e287	327	578	608	716	942	401	327	225
7	380	311	245	318	e318	507	568	654	2800	380	286	203
8	367	309	231	e283	e312	472	534	624	3410	383	268	196
9	348	323	236	e269	e306	445	535	580	2230	362	255	183
10	301	291	251	e260	e301	492	559	565	1400	316	239	178
11	308	293	245	271	395	593	570	532	1050	280	228	168
12	293	291	239	285	494	535	536	513	995	274	236	158
13	274	291	245	295	422	488	523	887	1390	324	232	158
14	268	283	266	302	369	473	518	2860	1210	315	229	178
15	284	277	304	286	336	450	733	2500	1430	356	273	274
16	342	272	318	e274	e328	452	909	1550	1520	457	259	365
17	309	270	296	e270	e322	493	712	1100	1550	416	224	295
18	287	276	377	e264	e317	484	602	1310	1310	389	223	181
19	270	276	577	e257	e312	489	552	2060	1040	424	216	184
20	268	280	485	252	e307	505	549	1560	912	883	262	173
21	275	288	385	e248	436	634	535	1140	806	676	257	166
22	281	277	342	e243	584	727	498	966	733	523	184	163
23	376	273	316	e239	521	665	545	942	687	464	170	167
24	511	271	350	280	448	579	533	892	660	578	168	164
25	525	296	453	307	399	552	510	731	615	524	183	156
26	513	340	e416	329	375	580	688	659	554	488	175	159
27	498	348	e380	325	351	990	687	637	537	416	165	231
28	488	314	e349	317	e340	1230	730	654	533	369	165	337
29	482	295	e328	317	---	941	1400	753	537	462	216	368
30	380	297	e316	334	---	813	1240	703	507	468	405	291
31	349	---	305	363	---	775	---	709	---	452	314	---
TOTAL	11551	9168	9904	8956	10542	18977	20043	31674	33880	13685	8249	6817
MEAN	373	306	319	289	376	612	668	1022	1129	441	266	227
MAX	525	364	577	363	584	1230	1400	2860	3410	883	500	377
MIN	268	270	231	239	301	330	498	513	507	274	165	156

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

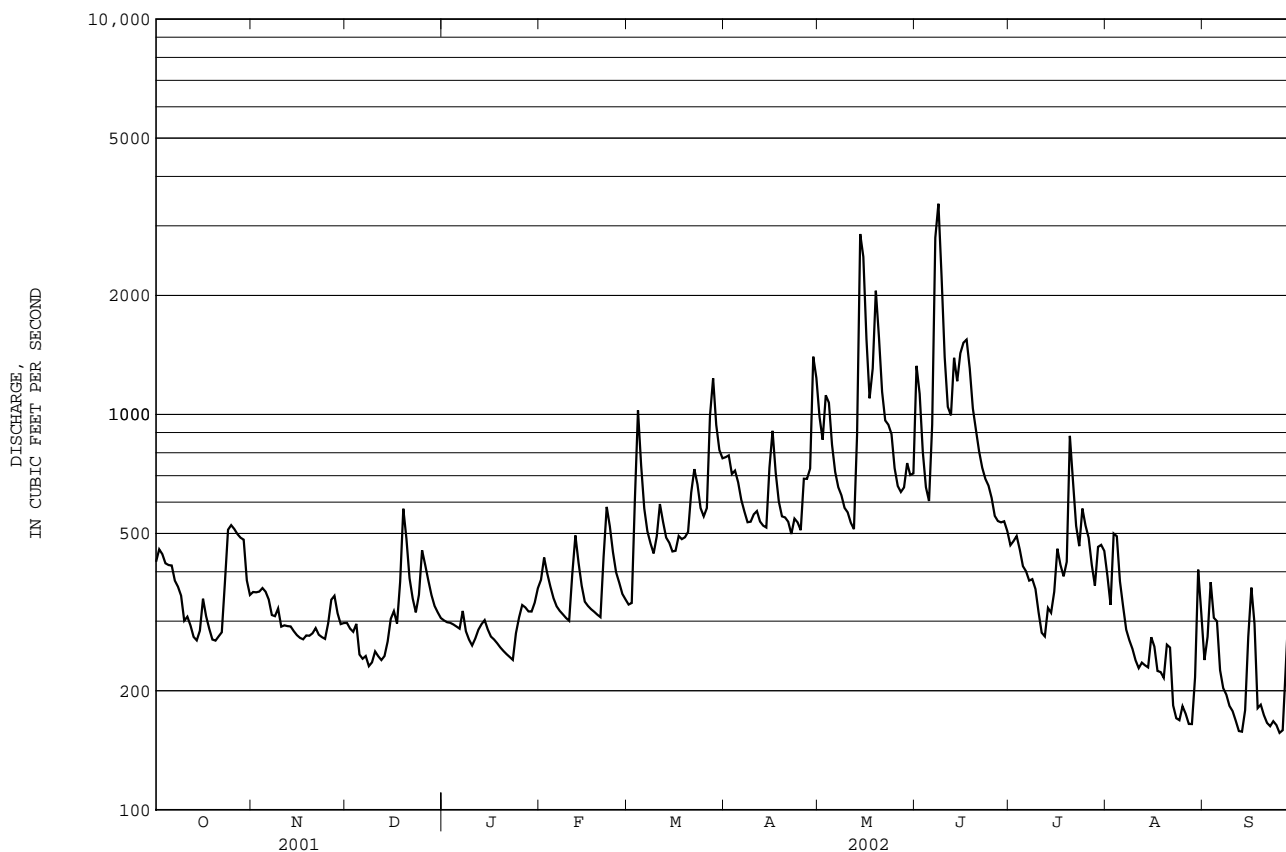
	MEAN	801	973	1157	1189	1226	1824	2129	1452	1178	695	652	666
MAX	2233	1985	3287	2886	2790	3378	4721	3329	3647	2398	1285	1794	
(WY)	1976	1996	1997	1978	1976	1983	1983	1989	1982	1972	1990	1975	
MIN	253	306	287	140	366	612	475	470	355	306	266	227	
(WY)	1981	2002	1981	1981	1980	2002	1985	1985	1985	1985	2002	2002	

e Estimated.

## 01189995 FARMINGTON RIVER AT TARIFFVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1972 - 2002	
ANNUAL TOTAL	308071			183446			1161	
ANNUAL MEAN	844			503			1637	1972
HIGHEST ANNUAL MEAN							451	1985
LOWEST ANNUAL MEAN							14200	Mar 23 1980
HIGHEST DAILY MEAN	5860	Mar 23		3410	Jun 8		128	Feb 7 1985
LOWEST DAILY MEAN	210	Sep 19		156	Sep 25		131	Jan 19 1981
ANNUAL SEVEN-DAY MINIMUM	241	Dec 6		164	Sep 20			
MAXIMUM PEAK FLOW				3640	Jun 8		<b>a</b> 29900	Sep 22 1938
MAXIMUM PEAK STAGE				4.74	Jun 8		<b>b</b> 14.00	Sep 22 1938
INSTANTANEOUS LOW FLOW				<b>d</b> 153	Sep 12		<b>c</b>	
10 PERCENT EXCEEDS	2150			910			2370	
50 PERCENT EXCEEDS	485			375			790	
90 PERCENT EXCEEDS	281			238			369	

- a** From computation of flow over dam 0.6 mi downstream.  
**b** From floodmarks.  
**c** Probably less than 30 ft<sup>3</sup>/s Mar. 1, 1938, river below intake.  
**d** Also occurred Sep. 14, 25, 26.



## CONNECTICUT RIVER BASIN

## 01189995 FARMINGTON RIVER AT TARIFFVILLE, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1967-68, 1971 to current year.

PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1971 to January 1972.

WATER TEMPERATURES: January 1971 to January 1972.

EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 285 microsiemens Feb. 16, 1971; minimum recorded, 70 microsiemens May 14, 15, 1971.

WATER TEMPERATURES: Maximum, 26.5°C June 25, 27, 1971; minimum, 0.0°C on many days during winter period in 1971.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00301)	FECAL COLIFORM, MFC MF, WATER (COL/100 ML) (31616)	ENTEROCOCCI, MEI MF, WATER (COL/100 ML) (90909)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 16...	0935	348	188	7.0	14.0	14.5	3.0	9.0	88	758k	129	48	14.4	
DEC 12...	1335	236	198	7.0	8.5	5.5	1.3	13.4	106	62	29	46	13.7	
FEB 07...	1400	332	197	6.8	5.5	2.0	.89	14.2	104	860	196	45	12.9	
APR 22...	1330	483	163	7.3	5.0	14.5	1.4	8.8	87	96	36	39	11.2	
JUN 06...	1215	906	142	6.9	19.0	17.5	4.4	8.1	85	1280k	2100	35	10.5	
JUL 09...	1245	358	163	7.2	32.5	23.5	2.1	8.3	99	44	73k	38	11.2	
AUG 26...	1330	174	205	7.3	27.0	22.5	1.5	8.4	96	40	10k	48	14.6	
SEP 16...	1330	390	200	7.1	26.0	21.0	1.0	8.1	92	94k	86k	43	12.6	
		MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 16...	2.90	17.0	2.15	0	41	34	10.3	26.0	E.1	5.13	108	106	.028	
DEC 12...	2.88	16.9	2.38	0	39	32	9.6	26.8	E.1	4.14	114	114	.022	
FEB 07...	3.00	17.4	1.81	0	35	29	10.6	28.4	<.1	7.11	118	118	.041	
APR 22...	2.67	13.6	1.95	0	33	27	9.0	23.3	<.1	3.95	89	96	.013	
JUN 06...	2.27	10.9	1.49	0	27	22	8.1	16.8	E.1n	6.49	94	99	.010	
JUL 09...	2.51	14.0	1.70	0	32	26	8.3	21.7	E.1n	3.75	93	89	.008	
AUG 26...	2.90	17.2	2.77	0	40	33	11.1	25.1	E.10n	4.49	120	115	<.008	
SEP 16...	2.77	19.0	2.44	0	37	30	14.2	25.9	E.1n	4.09	108	112	.015	
		NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTIMONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 16...	1.15	E.04	--	.39	.24	1.5	.25	.21	.19	5	.07	33	<.06	
DEC 12...	1.51	.18	.29	.47	.42	2.0	.21	.22	.19	5	.08	31	<.06	
FEB 07...	1.24	.36	.25	.61	.55	1.8	.187	.178	.15	8	.05	30	<.06	
APR 22...	.67	.10	.34	.44	.36	1.1	.160	.126	.10	9	.15	31	<.06	
JUN 06...	.87	.07	.46	.54	.35	1.4	.173	.105	.09	19	.09	32	<.06	
JUL 09...	.69	.04	.39	.43	.29	1.1	.178	.141	.13	8	.06	29	<.06	
AUG 26...	1.63	.06	.26	.32	.32	1.9	.30	.31	.28	9	.09	37	<.06	
SEP 16...	1.23	.09	.32	.41	.33	1.6	.26	.24	.22	4	.18	35	<.06	

## 01189995 FARMINGTON RIVER AT TARIFFVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 16...	.08	<.8	.07	2.5	70	E.06	34.7	.7	1.14	<1	4	.04	4.4
DEC 12...	.08	<.8	.08	2.3	106	.15	33.9	.5	1.28	<1	5	.05	3.1
FEB 07...	.09	E.4	.05	2.0	118	.17	47.0	.5	1.07	<1	6	.06	3.2
APR 22...	.07	<.8	.11	1.8	233	.20	84.7	.3	1.33	<1	4	.04	4.1
JUN 06...	.06	<.8	.07	2.0	204	.29	35.9	.5	.81	<1	4	.05	5.8
JUL 09...	.08	<.8	.07	1.8	118	.14	30.3	.5	.93	<1	5	.04	3.6
AUG 26...	.13	<.8	.08	2.6	92	.11	37.9	1.5	1.42	<1	5	.05	3.9
SEP 16...	.11	<.8	.06	2.2	80	.12	34.7	1.3	1.69	<1	4	.03	3.7

Value qualifier codes used in this report:

k -- Counts outside acceptable range

n -- Below the NDV

## CONNECTICUT RIVER BASIN

## 01190070 CONNECTICUT RIVER AT HARTFORD, CT

**LOCATION.**--Lat 41°46'10", long 72°40'04", Hartford County, Hydrologic Unit 01080205, at Bulkeley Memorial Bridge on U.S. Highway 84, at Hartford, 1.5 mi downstream from Podunk River and 1.2 mi upstream from Hockanum River.  
**DRAINAGE AREA.**--10,487 mi<sup>2</sup>.

## WATER-STAGE RECORD

**PERIOD of RECORD.**--January 1905 to current year.

**REVISED RECORDS.**--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is sea level. Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--Records prior to 1973 available at the River Forecast Center, NOAA, Taunton Mass. Records good. Tidal effect, at times of high freshwater inflow, is eliminated. Stage data in feet at 15-minute intervals available upon request.

**EXTREMES FOR PERIOD of RECORD.**--Maximum discharge, 313,000 ft<sup>3</sup>/s, Mar. 20, 1936; maximum elevation, 37.05 ft, Mar. 21, 1936; minimum tidal elevation (1973-95), -0.91 ft, Aug. 12, 1974.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 69,200 ft<sup>3</sup>/s, Apr. 17, elevation, 15.79 ft; minimum tidal elevation, -0.78 ft, Jan. 14.

## GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.62	1.36	2.79	0.51	3.63	1.77	2.35	-0.02	4.21	2.54	4.17	3.06
2	3.46	1.23	3.04	0.58	3.00	0.79	1.82	-0.38	3.24	1.75	3.82	3.02
3	3.15	0.79	2.77	0.48	3.38	1.13	2.73	0.04	3.38	1.48	4.96	3.30
4	3.15	0.68	2.80	0.41	3.24	1.38	2.73	1.10	3.81	2.29	4.40	3.73
5	3.11	0.60	2.36	0.35	3.25	1.60	2.73	1.06	3.30	1.87	4.74	3.78
6	2.98	0.96	2.66	0.08	3.26	1.42	2.67	0.91	2.93	1.63	5.06	4.68
7	2.32	0.13	2.63	-0.03	3.23	1.09	3.29	1.00	3.33	1.67	4.92	3.41
8	2.08	-0.74	2.73	-0.16	2.62	0.66	2.91	1.00	3.35	1.72	3.68	3.11
9	2.48	-0.17	3.21	1.24	3.41	0.93	2.70	0.78	2.90	1.08	3.69	2.42
10	2.53	-0.37	2.81	0.89	2.95	0.78	2.57	0.60	2.87	0.74	3.41	2.63
11	2.15	0.06	2.81	0.26	2.98	0.85	3.23	1.01	3.24	0.87	6.38	2.76
12	2.64	0.38	2.48	0.26	2.77	0.31	2.55	0.73	4.14	0.98	7.76	6.38
13	2.87	0.54	2.85	0.42	3.30	0.61	3.10	0.74	3.52	1.20	7.68	6.98
14	3.26	0.75	2.72	0.40	3.20	0.91	1.14	-0.78	3.05	1.17	6.99	5.32
15	3.40	1.00	2.80	0.26	3.07	1.11	2.92	-0.17	3.06	1.87	5.48	5.02
16	3.36	0.67	2.81	0.42	3.27	0.81	2.51	0.86	2.99	1.62	5.49	5.13
17	3.36	1.03	2.66	0.14	3.71	2.03	2.52	0.78	3.09	1.44	5.42	4.65
18	2.15	-0.30	2.48	0.28	3.66	1.94	2.28	0.83	2.67	0.86	4.85	4.33
19	2.70	-0.02	2.36	0.31	3.38	1.76	2.21	0.53	3.40	1.76	5.12	4.42
20	2.91	0.27	2.36	0.46	3.24	1.79	2.61	0.71	3.51	2.27	4.78	3.97
21	2.55	0.20	2.65	0.43	2.96	0.49	2.38	0.67	3.88	2.63	4.72	3.93
22	2.52	0.06	2.67	1.01	2.39	0.77	1.57	-0.33	3.39	2.25	4.59	3.03
23	2.94	0.31	2.52	0.53	2.53	0.92	2.08	0.02	3.35	2.27	3.51	2.92
24	3.21	0.90	2.33	0.54	3.30	1.15	2.38	0.60	3.97	2.83	3.51	2.83
25	2.95	0.99	2.61	0.62	3.04	1.47	2.59	0.67	4.39	3.41	3.62	2.80
26	2.98	0.94	2.68	0.90	3.02	1.09	2.60	0.46	4.45	3.23	4.33	2.65
27	2.38	0.33	2.67	0.51	3.24	1.19	2.98	0.46	4.50	3.29	4.90	3.99
28	2.19	0.26	2.97	0.93	2.95	0.79	3.91	1.84	3.91	2.77	5.20	4.08
29	2.38	0.22	3.51	0.93	2.91	0.95	3.75	1.58	---	---	5.76	5.15
30	2.61	0.52	3.61	1.40	2.71	0.63	3.69	1.51	---	---	5.77	5.18
31	2.90	0.99	---	---	2.18	-0.01	3.88	2.06	---	---	6.81	5.23
MONTH	3.62	-0.74	3.61	-0.16	3.71	-0.01	3.91	-0.78	4.50	0.74	7.76	2.42



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## GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

[illegible]

## CONNECTICUT RIVER BASIN

## 01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--September 1976 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		PH WATER WHOLE FIELD (STANDARD UNITS) (00400)					TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
Date	Time	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)														
OCT 22...	1400	180	7.8	20.5	16.0	2.7	10.6	108	172	62	49	15.2	2.63			
DEC 19...	1515	154	7.2	12.5	5.5	.83	12.6	101	740	500	37	11.8	1.91			
FEB 20...	1405	136	6.7	13.5	3.5	3.4	13.9	105	116	40	32	9.98	1.76			
APR 01...	1415	117	7.5	12.0	6.5	5.1	13.0	107	--e	60k	29	9.33	1.48			
JUN 03...	1430	115	7.4	22.0	19.0	2.9	8.5	91	86	62	31	10.2	1.47			
AUG 27...	1415	176	7.5	28.0	25.5	.85	7.0	85	20k	2k	44	13.5	2.57			
Date		SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)		
OCT 22...	14.7	2.31	0	43	35	11.5	23.7	E.1	2.30	98	94	.017	.49			
DEC 19...	12.9	1.55	0	32	26	9.3	18.7	E.1	4.88	90	86	.009	.41			
FEB 20...	11.0	1.20	0	26	21	8.9	17.7	E.1n	5.09	78	92	E.005	.39			
APR 01...	9.06	1.10	0	24	20	10.1	3.14	.1	5.34	69	67	<.008	.30			
JUN 03...	7.73	1.06	0	29	24	7.0	12.2	<.1	5.00	68	75	E.005	.26			
AUG 27...	14.5	2.31	0	48	39	12.3	22.5	.1	3.59	107	100	.042	.73			
Date		NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)		
OCT 22...	<.04	--	.54	.24	1.0	.080	.055	.04	16	.12	17	<.06	E.02			
DEC 19...	.07	.25	.32	.25	.73	.054	.040	.03	10	.07	13	<.06	E.02			
FEB 20...	.04	.33	.38	.19	.77	.129	.023	E.01	19	.09	12	<.06	<.04			
APR 01...	E.03	--	.32	.16	.63	.072	.013	<.02	22	.05	11	<.06	<.04			
JUN 03...	<.04	--	.27	.14	.53	.041	.015	<.02	18	E.03	11	<.06	<.04			
AUG 27...	.24	.33	.57	.50	1.3	.163	.152	.13	6	.10	20	<.06	E.03			

## 01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 22...	<.8	.09	1.8	55	.13	32.5	.7	.87	<1	2	.11	3.8
DEC 19...	<.8	.05	1.4	83	.16	13.5	.3	.71	<1	3	.06	3.6
FEB 20...	<.8	.08	1.1	90	.14	32.3	.3	.68	<1	3	.07	6.7
APR 01...	<.8	.05	1.2	59	.08	13.0	<.2	.43	<1	4	.06	4.9
JUN 03...	<.8	.06	1.3	90	.14	6.1	E.2	.65	<1	1	.07	4.6
AUG 27...	<.8	.07	2.7	19	.08	20.3	1.2	.96	<1	3	.06	3.9

Value qualifier codes used in this report:

k -- Counts outside acceptable range

n -- Below the NDV

Null value qualifier codes used in this report:

e -- Required equipment not functional/avail

## CONNECTICUT RIVER BASIN

## 01192050 HOCKANUM RIVER NEAR ROCKVILLE, CT

LOCATION.--Lat 41°51'57", long 72°29'12", Hartford County, Hydrologic Unit 01080203, at bridge on State Rt. 74 near Rockville.

DRAINAGE AREA.--25.5 mi<sup>2</sup>.

PERIOD of RECORD.--August 1968, March 1995 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00301)	FECAL COLIFORM, MFC MF, WATER (COL/100 ML) (31616)	ENTEROCOCCI, MEI MF, WATER (COL/100 ML) (90909)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 29...	1000	5.8	185	7.1	9.5	6.5	1.6	10.1	81	69	53	49	13.5	
DEC 11...	1050	45	219	7.0	5.5	3.5	4.1	9.4	71	55	148	59	16.1	
FEB 05...	1050	7.7	266	7.0	2.0	1.0	6.0	12.9	91	22k	46	76	20.7	
APR 08...	0915	9.0	270	7.2	8.5	6.5	4.5	10.2	82	40	16k	82	22.7	
JUN 04...	0930	12	255	7.2	23.5	14.5	5.0	7.6	74	280	124	80	22.3	
JUL 10...	0820	16	188	7.0	20.0	20.0	3.7	6.4	71	6800k	840	52	14.4	
AUG 05...	0850	8.3	197	7.1	25.5	23.0	6.6	6.1	71	460	560	56	15.4	
SEP 23...	0930	27	132	6.4	19.5	21.0	18	4.0	45	9600k	14800k	31	8.48	
Date		MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 29...	3.72	14.2	1.98	0	37	30	11.4	26.5	E.1	6.99	102	104	<.008	
DEC 11...	4.51	16.3	2.26	0	45	37	13.0	31.7	.1	5.64	124	124	.009	
FEB 05...	5.76	16.4	2.94	0	56	47	19.1	31.2	E.1	8.67	152	158	.030	
APR 08...	6.17	17.8	2.83	0	54	44	18.7	33.6	.1	6.59	153	159	.020	
JUN 04...	5.94	15.2	3.28	0	55	45	15.3	30.4	E.1n	9.37	173	181	.049	
JUL 10...	3.92	13.0	2.00	0	40	33	11.9	23.9	<.1	6.50	108	132	.019	
AUG 05...	4.16	14.4	1.99	0	40	33	12.5	25.7	E.1	6.92	116	124	.017	
SEP 23...	2.41	7.78	3.96	0	17	14	15.8	13.8	<.1	4.11	82	108	.010	
Date		NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTIMONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 29...	.65	.05	.19	.24	.23	.89	.040	.017	<.02	3	.07	36	<.06	
DEC 11...	.98	.05	.29	.35	.24	1.3	.065	.016	E.01	2	.08	43	<.06	
FEB 05...	1.79	.21	.44	.65	.52	2.4	.089	.026	E.01	6	.07	56	<.06	
APR 08...	1.90	.08	.47	.55	.38	2.4	.103	.033	.02	8	<.05	63	<.06	
JUN 04...	1.80	.18	.60	.79	.64	2.6	.178	.113	.09	24	.13	61	<.06	
JUL 10...	.91	.06	.47	.52	.40	1.4	.122	.044	.03	8	.11	43	<.06	
AUG 05...	.98	.07	.34	.41	.29	1.4	.101	.044	.03	6	.14	45	<.06	
SEP 23...	.68	<.04	--	.98	.47	1.7	<.06	.154	.13	19	.20	39	<.06	

## 01192050 HOCKANUM RIVER NEAR ROCKVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 29...	<.04	<.8	.10	2.3	79	.20	105	E.2	.11	<1	2	.04	4.1
DEC 11...	<.04	<.8	.12	2.2	125	.21	68.7	E.2	.35	<1	2	.07	5.1
FEB 05...	<.04	<.8	.24	4.3	177	.30	257	.3	.22	<1	4	.19	3.8
APR 08...	<.04	<.8	.20	2.1	217	.25	165	.3	.31	<1	4	.24	4.6
JUN 04...	<.04	<.8	.29	2.6	785	.88	171	.4	1.03	<1	4	.17	8.8
JUL 10...	<.04	<.8	.17	3.2	166	.40	112	E.2	.46	<1	3	.07	5.8
AUG 05...	<.04	<.8	.15	2.7	81	.26	106	.3	.54	<1	2	.06	4.6
SEP 23...	.12	<.8	.40	7.2	277	1.00	261	.3	1.33	<1	18	.04	9.3

Value qualifier codes used in this report:  
k -- Counts outside acceptable range  
n -- Below the NDV

## CONNECTICUT RIVER BASIN

## 01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT

**LOCATION.**--Lat 41°46'59", long 72°35'16", Hartford County, Hydrologic Unit 01080205, on left bank at end of Preston St., 0.2 mi upstream from bridge on Walnut St., 1.5 mi downstream from Hop Brook, and 2.8 mi east of East Hartford.

**DRAINAGE AREA.**--73.4 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

**PERIOD of RECORD.**--September 1919 to September 1921, July 1928 to September 1971. Annual maximum, water years 1972-76. October 1976 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 53.60 ft above sea level (revised). Prior to October 1, 1981, datum in error by +0.90 ft, original levels by Department of Engineering, City of Hartford. Satellite telemetry at station.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by Shenipsit Lake, small reservoirs, and industrial facilities.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 637 ft<sup>3</sup>/s, May 14, gage height, 5.25 ft; minimum discharge, 23 ft<sup>3</sup>/s, Aug. 28, 29, gage height, 1.38 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	39	48	37	63	42	101	91	212	55	37	33
2	47	40	41	36	61	41	74	91	96	54	50	76
3	39	52	39	36	47	168	88	89	74	51	65	53
4	33	39	40	36	45	83	101	71	65	48	43	114
5	33	38	43	36	42	61	73	67	90	55	38	54
6	42	38	39	38	40	54	68	63	212	48	37	39
7	39	37	39	73	39	52	65	60	472	45	34	33
8	35	35	38	48	39	50	59	58	220	45	33	31
9	35	39	49	42	38	49	61	56	132	82	32	31
10	34	38	44	43	39	73	70	70	104	89	32	30
11	34	36	45	52	91	55	59	56	97	50	31	30
12	35	37	52	52	54	50	56	66	176	45	31	28
13	35	38	44	78	47	49	58	249	268	43	31	28
14	34	39	45	61	42	49	56	415	162	42	30	29
15	55	37	52	53	41	47	123	152	184	43	30	44
16	45	37	46	47	42	64	72	106	159	43	30	73
17	41	36	45	45	49	54	60	89	148	39	29	42
18	39	35	119	44	51	55	58	303	130	39	28	33
19	38	36	69	41	44	57	54	194	138	109	28	30
20	40	47	52	42	44	82	54	123	121	111	130	30
21	39	42	48	42	86	98	51	102	108	49	49	30
22	41	37	44	42	56	73	54	90	109	43	32	29
23	40	34	42	46	48	60	62	83	111	145	30	151
24	40	35	112	54	44	56	53	84	102	149	30	50
25	38	37	64	52	43	55	65	84	94	56	43	36
26	40	65	52	47	43	63	94	72	92	46	30	49
27	49	49	48	45	50	264	62	70	86	43	28	142
28	38	46	44	44	49	112	115	71	85	45	26	93
29	37	45	42	43	---	83	164	75	74	68	116	53
30	38	46	40	44	---	75	94	68	58	44	76	43
31	39	---	38	44	---	71	---	109	---	39	40	---
TOTAL	1236	1209	1563	1443	1377	2245	2224	3377	4179	1863	1299	1537
MEAN	39.9	40.3	50.4	46.5	49.2	72.4	74.1	109	139	60.1	41.9	51.2
MAX	64	65	119	78	91	264	164	415	472	149	130	151
MIN	33	34	38	36	38	41	51	56	58	39	26	28

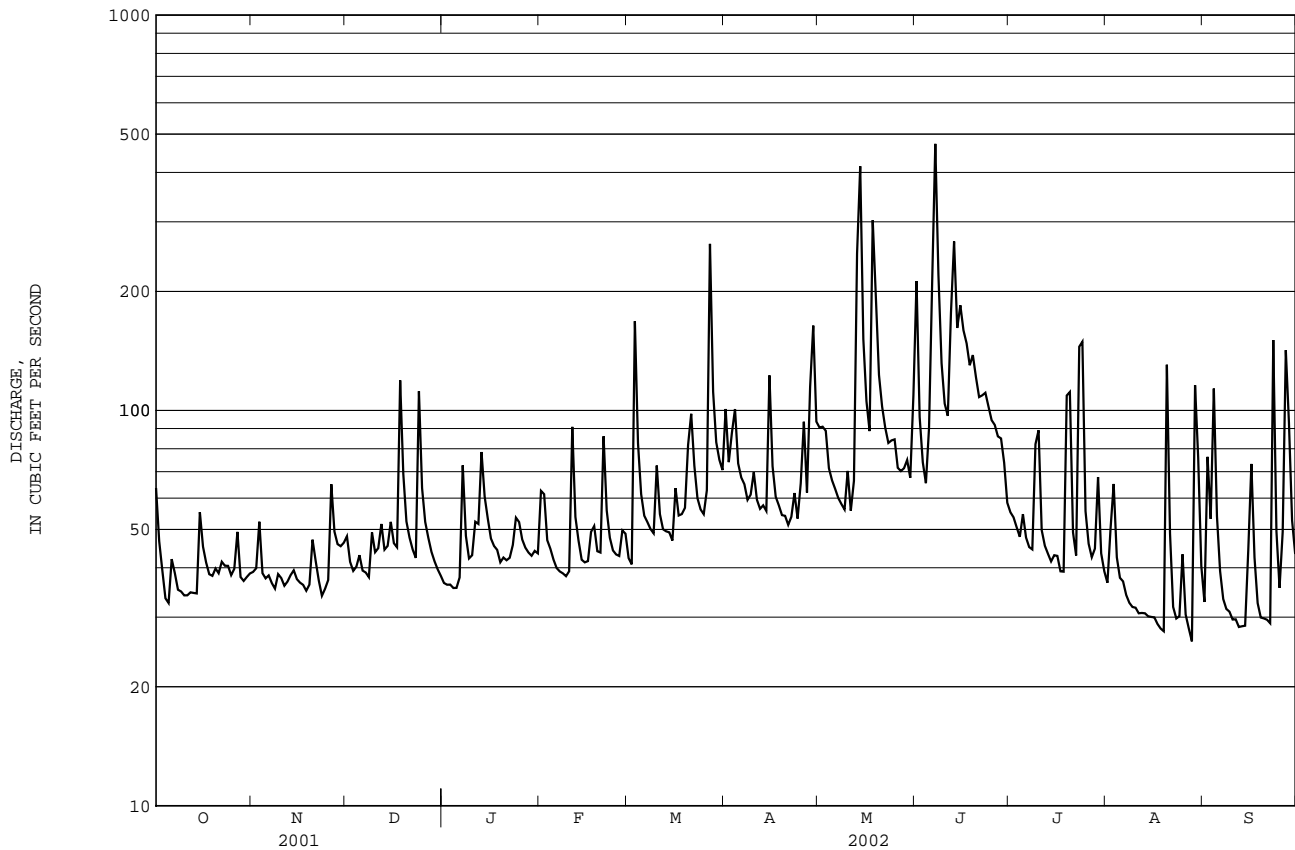
## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2002, BY WATER YEAR (WY)

	MEAN	72.0	92.5	111	129	140	196	193	139	109	73.8	71.1	70.8
MAX	284	381	352	368	371	406	430	262	448	200	289	518	
(WY)	1956	1956	1997	1979	1970	1920	1983	1984	1982	1938	1955	1938	
MIN	25.8	35.4	31.6	23.2	49.2	72.4	65.2	56.1	36.3	29.5	28.4	27.0	
(WY)	1931	1965	1931	1981	2002	2002	1985	1965	1965	1965	1966	1957	

## 01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1920 - 2002	
ANNUAL TOTAL	34817		23552		116	
ANNUAL MEAN	95.4		64.5		176	
HIGHEST ANNUAL MEAN					1938	
LOWEST ANNUAL MEAN					55.8	
HIGHEST DAILY MEAN	876	Mar 22	472	Jun 7	4300	Sep 21 1938
LOWEST DAILY MEAN	33	Oct 4	26	Aug 28	1.2	Sep 2 1920
ANNUAL SEVEN-DAY MINIMUM	35	Oct 8	29	Aug 13	13	Sep 2 1934
MAXIMUM PEAK FLOW			637	May 14	a5160	Sep 21 1938
MAXIMUM PEAK STAGE			5.25	May 14	b13.78	Sep 21 1938
INSTANTANEOUS LOW FLOW			d23	Aug 28	c	
10 PERCENT EXCEEDS	187		111		221	
50 PERCENT EXCEEDS	62		49		86	
90 PERCENT EXCEEDS	38		34		39	

- a By computation of flow over dam just above gage.  
b From floodmarks.  
c Practically no flow at times caused by regulation.  
d Also occurred Aug. 29.



## CONNECTICUT RIVER BASIN

## 01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1954-55, 1961-62, 1968-69 , October 1991 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	
OCT 29...	1330	42	415	7.4	13.5	9.5	2.0	11.8	102	2500	220	110	36.1	
DEC 11...	1405	46	477	7.4	9.0	8.0	3.6	13.3	111	1180	920	110	35.5	
FEB 05...	1325	44	489	7.5	-3.0	3.5	4.0	13.8	104	2800	620	110	34.8	
APR 08...	1300	49	400	7.3	12.5	10.0	3.8	12.8	112	400	54	98	30.5	
JUN 04...	1315	67	334	7.4	22.5	19.5	5.5	9.3	101	192	104	86	26.9	
JUL 10...	1230	73	322	7.2	25.5	24.5	4.0	7.6	92	16600k	1450k	81	25.0	
AUG 05...	1210	41	365	7.6	33.0	24.5	5.7	7.9	95	440	100	97	30.2	
13...	0945	34	417	7.4	31.5	23.5	--	7.9	93	--	--	--	--	
13...	1200	35	--	--	--	--	--	--	--	--	--	--	--	
SEP 23...	1130	170	312	7.4	23.0	22.5	21	8.0	91	12300k	10100k	71	21.7	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CaCO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 29...	5.91	36.1	4.79	0	87	72	32.4	54.4	.2	9.97	238	238	.026	
DEC 11...	6.10	43.7	5.64	0	90	75	37.0	65.8	.3	8.05	286	278	.024	
FEB 05...	6.29	45.3	5.21	0	82	68	35.1	67.0	.2	10.3	278	276	.061	
APR 08...	5.40	35.3	4.51	0	66	54	27.6	58.2	.2	8.31	234	221	.016	
JUN 04...	4.55	26.8	4.10	0	59	48	22.0	45.1	.2	9.66	210	254	.020	
JUL 10...	4.53	27.3	4.29	0	61	50	22.8	44.1	.2	8.96	198	208	.030	
AUG 05...	5.16	33.1	4.78	0	73	60	26.5	52.2	.3	11.0	220	225	.048	
13...	--	--	--	--	--	--	28.6	--	--	--	--	--	--	
13...	--	--	--	--	--	--	--	--	--	--	--	--	--	
SEP 23...	3.98	28.8	4.48	0	56	46	26.6	39.9	.2	6.45	181	199	E.004	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 29...	3.42	.17	.48	.64	.64	4.1	.40	.35	.33	8	.32	83	<.06	
DEC 11...	5.49	.11	.91	1.0	.75	6.5	.67	.58	.53	7	.35	85	<.06	
FEB 05...	5.20	.19	.92	1.1	.90	6.3	.61	.50	.50	10	.32	80	<.06	
APR 08...	4.35	.07	.99	1.1	.63	5.4	.47	.40	.34	17	<.05	75	<.06	
JUN 04...	3.22	.06	.78	.84	.59	4.1	.47	.39	.38	22	.31	67	<.06	
JUL 10...	2.46	.13	.67	.79	.67	3.2	.46	.41	.37	13	.25	66	<.06	
AUG 05...	2.21	.12	.98	1.1	.64	3.3	.48	.39	.33	23	.60	67	<.06	
13...	--	--	--	--	--	--	--	--	--	--	--	--	--	
13...	--	--	--	--	--	--	--	--	--	--	--	--	--	
SEP 23...	.58	<.04	--	1.2	.12	1.8	.30	.043	.03	27	.68	53	<.06	



## 01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 29...	E.03	E.5	.20	3.1	116	.35	80.3	.9	.27	<1	17	.34	5.6
DEC 11...	E.04	E.6	.24	3.6	84	.27	127	1.7	1.23	<1	33	.36	5.9
FEB 05...	.04	E.6	.25	4.1	101	.33	153	3.1	.51	<1	38	.37	5.2
APR 08...	E.03	<.8	.25	3.3	142	.32	136	.8	.60	<1	23	.30	7.6
JUN 04...	E.02	E.6	.26	3.9	202	.57	94.6	1.2	1.21	<1	17	.21	7.3
JUL 10...	E.03	<.8	.18	3.9	132	.52	90.8	1.2	.71	<1	17	.13	6.5
AUG 05...	E.03	<.8	.25	3.0	114	.26	122	2.7	1.18	<1	16	.28	8.8
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 23...	.06	<.8	.20	4.1	58	.35	59.5	1.4	1.38	<1	11	.13	8.8

Date	SEDI- MENT, DIS- SOLVED (MG/L) (80154)	SEDI- MENT, DIS- SOLVED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 29...	--	--	--
DEC 11...	--	--	--
FEB 05...	--	--	--
APR 08...	--	--	--
JUN 04...	--	--	--
JUL 10...	--	--	--
AUG 05...	--	--	--
13...	6.0	.55	88
13...	--	--	--
SEP 23...	--	--	--

Value qualifier codes used in this report:  
 k -- Counts outside acceptable range

## CONNECTICUT RIVER BASIN

## 01192704 MATTABESSET RIVER AT RT 372 AT EAST BERLIN, CT

LOCATION.--Lat 41°36'29", long 72°42'56", Hartford County, Hydrologic Unit 01080205, on right bank just upstream from bridge on Rt. 372, and on the Hartford-Middlesex County line.

DRAINAGE AREA.--48.1 mi<sup>2</sup>.

PERIOD of RECORD.--March 1995 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 24...	0910	15	440	7.5	20.0	13.5	2.4	7.7	75	20	17k	190	50.4	
DEC 04...	0930	12	438	8.0	10.0	7.5	2.9	13.4	111	24	29	180	46.7	
FEB 06...	1035	15	492	8.0	2.0	1.5	2.5	15.7	111	16k	42k	170	46.1	
APR 02...	1010	51	338	7.6	12.5	10.0	3.8	11.7	104	68k	17k	120	32.9	
JUN 27...	1000	40	439	8.0	31.0	23.5	2.1	9.5	113	50	88	180	46.7	
JUL 11...	1325	12	333	7.8	24.0	24.0	2.0	9.2	110	6000k	64k	120	32.7	
AUG 07...	1230	11	418	7.8	26.5	23.0	2.5	8.2	95	53	15k	160	42.8	
SEP 19...	0800	11	358	7.6	18.5	17.5	1.4	7.3	76	16k	96	140	36.7	
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 CAC03) (00453) (39086)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 24...	15.2	18.8	1.77	0	181	150	22.9	36.1	E.1	12.0	260	264	E.006	
DEC 04...	14.4	18.4	1.80	0	183	152	24.4	34.2	.1	10.4	268	260	E.006	
FEB 06...	14.1	30.3	1.40	0	156	130	26.4	55.8	.1	9.97	280	288	E.007	
APR 02...	10.2	20.2	1.18	0	107	88	19.6	33.7	.2	8.17	195	196	E.005	
JUN 27...	14.4	20.4	1.31	0	167	137	22.0	40.2	.2	11.4	250	278	.015	
JUL 11...	10.3	16.2	2.60	0	111	91	17.8	30.3	E.1n	8.69	198	212	.047	
AUG 07...	13.6	19.3	1.77	0	164	134	20.4	34.8	E.11n	13.2	275	244	.018	
SEP 19...	11.0	15.9	1.78	0	132	108	18.8	27.4	E.1n	12.0	209	209	.008	
		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 24...	.47	<.04	--	.42	.16	.89	.060	.028	E.01	<1	.13	123	<.06	
DEC 04...	.58	E.02	--	.32	.22	.90	.045	.020	<.02	3	.11	117	<.06	
FEB 06...	1.00	E.03	--	.30	.21	1.3	.029	.011	<.02	2	.10	114	<.06	
APR 02...	.59	E.02	--	.34	.26	.92	.042	.021	E.01	6	.05	84	<.06	
JUN 27...	.87	<.04	--	.26	.19	1.1	.070	.053	.04	1	.15	117	<.06	
JUL 11...	1.00	.08	.56	.64	.55	1.6	.106	.086	.06	2	.35	90	<.06	
AUG 07...	.82	.05	.32	.37	.31	1.2	.108	.095	.07	3	.24	122	<.06	
SEP 19...	.60	E.03	--	.35	.31	.94	.087	.066	.05	2	.24	107	<.06	

## 01192704 MATTABESSET RIVER AT RT 372 AT EAST BERLIN, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24...	.04	E.5	.12	1.9	31	E.05	56.5	.5	.73	<1	2	.67	4.3
DEC 04...	.11	E.4	.15	6.2	50	.36	90.9	.6	1.16	<1	9	.66	--c
FEB 06...	.04	<.8	.15	1.8	43	.14	110	.5	1.20	<1	2	.69	4.0
APR 02...	.04	<.8	.14	2.8	123	.17	89.5	.5	1.49	<1	3	.42	5.5
JUN 27...	E.02	<.8	.12	2.0	70	.13	64.6	1.1	.70	<1	1	.69	4.0
JUL 11...	E.04	<.8	.10	5.3	37	.16	34.5	2.1	1.71	<1	2	.39	7.1
AUG 07...	E.03	<.8	.15	2.2	48	.13	164	1.0	1.92	<1	3	.70	4.1
SEP 19...	E.03	<.8	.12	3.1	24	E.07	61.2	.7	3.09	<1	2	.39	4.8

Value qualifier codes used in this report:

k -- Counts outside acceptable range  
n -- Below the NDV

Null value qualifier codes used in this report:

c -- Sample lost in lab

## CONNECTICUT RIVER BASIN

## 01192883 COGINCHAUG RIVER AT MIDDLEFIELD, CT

**LOCATION.**--Lat 41°31'12", long 72°42'23", Middlesex County, Hydrologic Unit 01080205, on right bank just upstream from Cider Mill Rd., 0.5 mi northeast of Middlefield, and 0.75 mi upstream from Wadsworth Falls.

**DRAINAGE AREA.**--29.8 mi<sup>2</sup>.

**PERIOD of RECORD.**--October 1961 to December 1980, published as "at Rockfall", December 1980 to current year.

**REVISED RECORDS.**--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 134.17 ft above sea level. Satellite telemetry at station. Prior to Dec. 2, 1980, water-stage recorder at site 2.0 mi downstream at datum 73.01 ft lower.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Infrequent regulation from Beseck Lake.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 259 ft<sup>3</sup>/s, May 14, 15, gage height, 6.93 ft; minimum discharge, 0.24 ft<sup>3</sup>/s, Aug. 20, gage height, 4.02 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	8.4	10	e8.4	e20	e17	94	114	47	9.5	2.0	7.8
2	49	9.9	9.3	e6.9	e19	17	92	97	43	8.6	3.0	12
3	42	11	8.3	e6.1	e18	81	81	111	35	8.0	4.6	15
4	26	9.6	7.7	e5.5	e17	130	77	113	28	8.1	3.8	28
5	15	9.6	7.5	e5.0	e16	120	69	92	26	7.7	3.3	25
6	11	10	7.0	6.7	16	87	60	71	31	6.2	2.5	18
7	8.9	9.5	6.8	19	15	60	52	57	103	5.4	1.7	11
8	7.6	8.9	6.8	19	e14	46	47	49	122	5.1	1.3	7.0
9	7.0	8.2	9.5	21	e14	39	45	42	106	4.9	0.84	5.0
10	6.7	7.6	11	18	13	39	45	40	80	5.8	0.64	4.1
11	6.6	7.0	12	20	36	38	43	35	57	5.9	0.50	4.4
12	6.4	6.7	11	21	41	34	40	34	41	5.5	0.42	3.9
13	6.1	6.7	10	29	35	31	38	79	33	4.4	0.35	3.1
14	5.8	6.4	9.9	33	29	31	37	235	31	4.0	0.29	3.2
15	11	6.5	12	35	21	30	39	244	41	3.0	0.27	7.5
16	12	6.8	11	32	21	29	38	186	48	2.9	0.27	24
17	12	6.6	11	27	23	28	35	130	53	2.8	0.28	32
18	11	6.3	20	23	26	28	31	164	48	2.4	0.27	32
19	9.5	6.3	25	e20	24	33	27	209	40	2.3	0.26	24
20	8.5	7.3	27	e16	23	41	25	182	32	3.2	0.74	15
21	8.1	8.1	22	e15	28	73	24	138	26	3.1	0.37	10
22	7.2	7.6	17	e13	30	81	25	104	21	2.6	0.31	8.0
23	6.7	7.1	14	19	28	67	33	80	18	3.5	0.32	11
24	18	6.9	24	32	24	52	31	64	16	5.9	0.37	10
25	30	7.5	26	41	21	43	31	53	14	5.2	0.49	8.6
26	29	13	26	39	20	41	44	45	12	4.5	0.32	8.8
27	29	18	21	33	e19	145	43	42	12	3.7	0.29	24
28	30	16	17	28	e18	203	53	42	12	3.7	0.27	35
29	29	12	14	25	---	172	98	43	11	3.8	7.0	33
30	19	10	e12	e23	---	130	113	40	10	3.2	8.6	25
31	8.2	---	e9.8	e21	---	97	---	39	---	2.5	7.9	---
TOTAL	517.3	265.5	435.6	660.6	629	2063	1510	2974	1197	147.4	53.57	455.4
MEAN	16.7	8.85	14.1	21.3	22.5	66.5	50.3	95.9	39.9	4.75	1.73	15.2
MAX	49	18	27	41	41	203	113	244	122	9.5	8.6	35
MIN	5.8	6.3	6.8	5.0	13	17	24	34	10	2.3	0.26	3.1
CFSM	0.56	0.30	0.47	0.72	0.75	2.23	1.69	3.22	1.34	0.16	0.06	0.51
IN.	0.65	0.33	0.54	0.82	0.79	2.58	1.88	3.71	1.49	0.18	0.07	0.57

STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2002, BY WATER YEAR (WY)

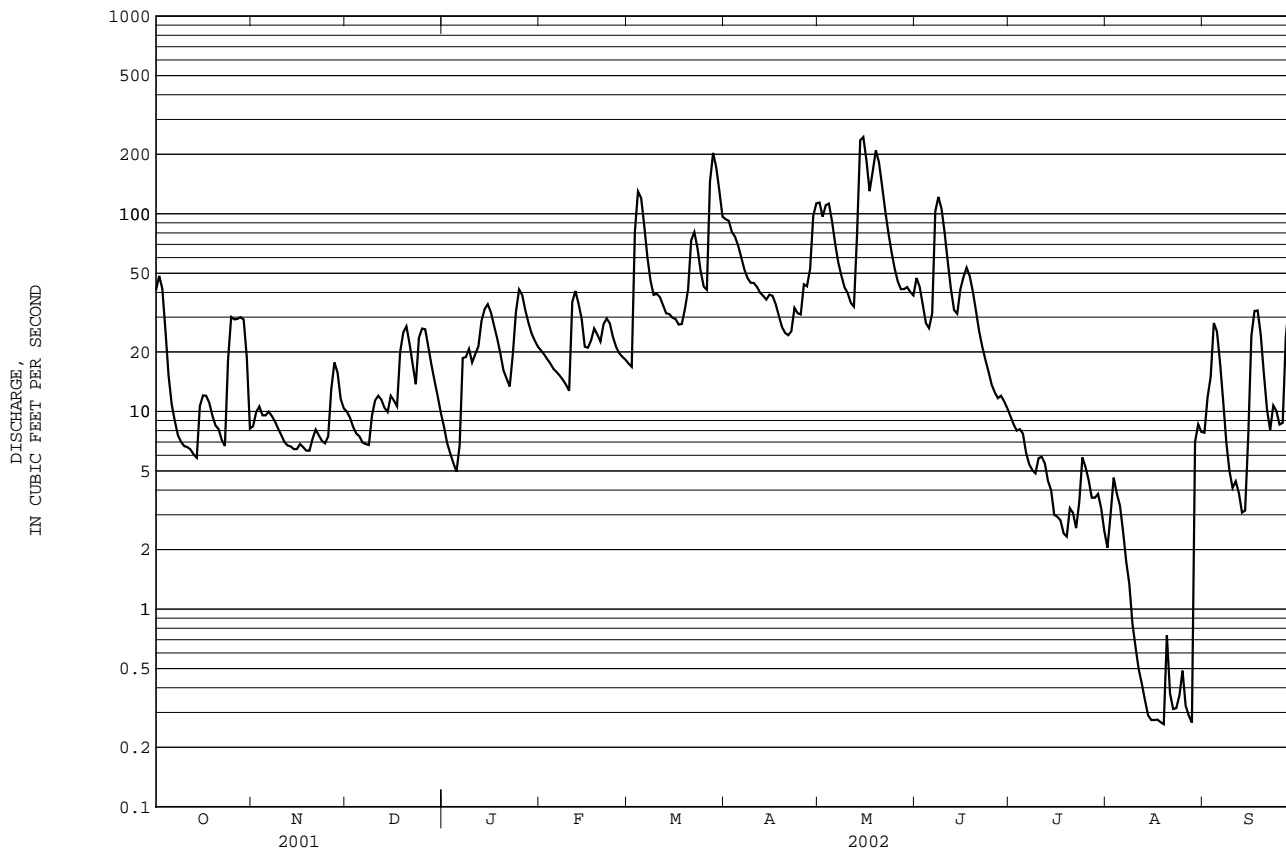
	MEAN	34.0	58.1	77.9	75.8	88.3	105	101	59.9	53.7	17.0	21.1	14.6
MAX	130	121	237	144	162	206	284	172	242	61.3	73.6	41.2	
(WY)	1990	1997	1997	1982	1981	1983	1983	1989	1982	1984	1991	1989	
MIN	4.43	8.85	14.1	8.43	22.5	47.8	25.4	16.2	5.20	2.45	1.73	2.56	
(WY)	1998	2002	2002	1981	2002	1981	1985	1986	1988	1987	2002	1995	

e Estimated.

## 01192883 COGINCHAUG RIVER AT MIDDLEFIELD, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1981 - 2002	
ANNUAL TOTAL	17487.4		10908.37		59.5	
ANNUAL MEAN	47.9		29.9		95.6	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	691	Mar 23	244	May 15	1670	Jun 6 1982
LOWEST DAILY MEAN	2.1	Sep 12	0.26	Aug 19	0.26	Aug 19 2002
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 7	0.28	Aug 13	0.28	Aug 13 2002
MAXIMUM PEAK FLOW			a259	May 14	2260	Apr 16 1996
MAXIMUM PEAK STAGE			6.93	May 14	12.46	Apr 16 1996
INSTANTANEOUS LOW FLOW			0.24	Aug 20	0.25	Aug 19 2002
ANNUAL RUNOFF (CFSM)	1.61		1.00		2.00	
ANNUAL RUNOFF (INCHES)	21.83		13.62		27.14	
10 PERCENT EXCEEDS	109		75		136	
50 PERCENT EXCEEDS	18		18		35	
90 PERCENT EXCEEDS	5.6		3.2		4.6	

a Also occurred May 15.



## CONNECTICUT RIVER BASIN

## 01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT

**LOCATION.**--Lat 41°33'40", long 72°36'43", Middlesex County, Hydrologic Unit 01080205, on right bank 0.5 mi upstream from Bodkin Rock, 2 mi downstream from Middletown, and 29.5 mi upstream from mouth.

**DRAINAGE AREA.**--10,887 mi<sup>2</sup>.

**PERIOD of RECORD.**--October 1965 to current year. Jan. 1, 1947 to Sept. 30, 1948, twice daily readings on outside staff gage, and Sept. 8, 1948 to Oct. 14, 1965, infrequent discharge measurements at high stages and continuous graphic record of stage.

**REVISED RECORDS.**--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is sea level. Telephone telemetry at station..

**REMARKS.**--Prior to 1994 water year, volume discharge records are available.

**EXTREMES FOR PERIOD of RECORD.**--Maximum discharge, 186,000 ft<sup>3</sup>/s June 2, 1984, gage height, 31.27 ft.

**EXTREMES OUTSIDE PERIOD of RECORD.**--Maximum discharge, 267,000 ft<sup>3</sup>/s Mar. 21, 1936, gage height, 38.2 ft, from rating curve extended above 125,000 ft<sup>3</sup>/s on basis of stage and discharge determinations of 1927, 1936, and 1938 floods. Peak discharges for floods dating back to 1814 are available in the office at East Hartford, Conn.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 68,600 ft<sup>3</sup>/s, Apr. 18, elevation, 8.09 ft.; minimum tidal elevation, -0.29 ft, Oct. 8-10, 18 and Jan. 2, 14, 22.

## GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.97	1.40	1.93	0.29	2.53	0.90	1.44	-0.18	2.97	1.58	2.25	0.68
2	2.78	1.04	1.97	0.34	1.99	0.41	1.00	-0.29	2.10	0.45	2.27	1.04
3	2.29	0.75	1.98	0.30	2.23	0.49	1.61	-0.26	2.23	0.19	3.24	1.29
4	2.25	0.64	2.08	0.25	1.81	0.40	1.78	0.43	2.63	1.28	2.69	1.38
5	2.15	0.49	1.79	0.25	2.28	0.63	1.78	0.53	2.38	1.13	2.07	1.08
6	2.30	0.36	1.83	-0.05	2.31	0.78	1.82	0.46	2.19	0.74	2.37	1.27
7	1.79	0.18	1.68	0.02	1.81	0.47	2.49	0.94	2.18	0.78	2.18	1.25
8	1.08	-0.29	2.29	-0.17	1.75	0.31	1.93	0.62	2.42	1.11	2.16	1.10
9	1.92	-0.29	2.45	0.57	2.45	0.55	1.85	0.43	2.05	0.77	2.03	0.84
10	1.47	-0.29	2.07	0.38	2.13	0.57	1.64	0.32	1.84	0.49	2.11	0.39
11	1.97	0.06	1.99	0.11	2.08	0.46	2.17	0.55	2.23	0.36	1.61	-0.11
12	2.12	0.27	1.79	0.07	1.99	0.17	1.54	0.23	2.60	0.47	3.39	1.61
13	2.24	0.44	1.87	0.09	2.32	0.65	2.20	0.30	2.35	0.34	3.64	2.81
14	2.55	0.68	1.81	0.11	2.30	0.61	0.40	-0.29	1.64	0.27	3.51	2.07
15	2.74	0.67	1.98	0.15	2.16	0.38	1.80	-0.26	1.83	0.72	2.86	1.89
16	2.41	0.36	2.11	0.34	2.11	0.41	1.66	0.35	1.95	0.79	2.99	1.77
17	2.69	0.21	1.99	0.14	2.70	0.88	1.64	0.34	1.99	0.92	2.87	1.77
18	1.45	-0.29	1.80	0.28	2.71	1.16	1.43	0.46	1.73	0.39	2.84	1.78
19	1.85	-0.16	1.73	0.20	2.33	0.89	1.35	0.19	2.43	1.15	3.04	1.89
20	1.69	0.22	1.69	0.32	2.35	1.14	1.73	0.54	2.47	1.27	2.93	1.74
21	1.58	0.24	1.95	0.17	1.38	0.01	1.61	0.53	2.76	1.37	2.65	1.47
22	1.58	0.16	1.88	0.63	1.64	0.22	1.29	-0.29	2.41	1.14	2.29	0.39
23	2.45	0.22	1.76	0.47	1.81	0.55	1.27	-0.28	2.07	0.92	1.51	0.52
24	2.24	0.73	1.78	0.51	2.26	0.77	1.50	0.48	2.53	1.11	1.86	0.63
25	2.29	0.89	1.93	0.57	2.14	0.83	1.82	0.51	2.84	1.47	2.25	0.97
26	2.07	0.55	2.00	0.55	2.17	0.71	1.64	0.34	3.04	1.56	2.73	1.06
27	1.68	0.32	1.89	0.36	2.33	0.79	1.76	0.11	3.20	1.76	3.21	1.83
28	1.59	0.16	2.13	0.59	1.88	0.31	2.59	0.99	2.68	0.58	2.92	1.63
29	1.64	0.21	2.58	0.72	1.91	0.40	2.63	1.19	---	---	3.28	2.05
30	1.76	0.17	2.49	0.80	1.75	0.24	2.51	1.09	---	---	3.61	2.14
31	2.09	0.44	---	---	1.28	-0.21	2.76	1.29	---	---	3.52	2.14
MONTH	2.97	-0.29	2.58	-0.17	2.71	-0.21	2.76	-0.29	3.20	0.19	3.64	-0.11

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

[illegible]

## CONNECTICUT RIVER BASIN

## 01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT

**LOCATION.**--Lat 41°32'30", long 72°33'13", Middlesex County, Hydrologic Unit 01080205, on pier of United Technologies Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL), 0.8 mi south of Middle Haddam, 7.6 mi upstream from Salmon River, and 6.1 mi south of Middletown.

**DRAINAGE AREA.**--10,897 mi<sup>2</sup> rev.

**PERIOD of RECORD.**--Water year 1967 to current year.

**PERIOD of DAILY RECORD.**--

SPECIFIC CONDUCTANCE: October 1967 to September 1970, October 1973 to June 1976, June 1978 to September 2002 (discontinued).

pH: October 1967 to September 1970, October 1973 to June 1976, June 1978 to September 2002 (discontinued).

WATER TEMPERATURES: October 1967 to September 1970, October 1973 to June 1976, June 1978 to September 2002 (discontinued).

DISSOLVED OXYGEN: October 1967 to September 1970, October 1973 to June 1976, June 1978 to September 1997, October 1998 to September 1999.

**INSTRUMENTATION.**--Water-quality monitor October 1967 to September 2002 (discontinued).

**REMARKS.**--USGS water-quality monitoring system installed June 1978. Interruptions of the record due to malfunctions of the instrument. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records due to the depth and location of the probes used for the monitoring system. Stream tidal affected. Extremes for period of daily record and current year are only for those values reported. Limited daily value data for water year 2002 available upon request.

**EXTREMES FOR PERIOD of DAILY RECORD.**--

SPECIFIC CONDUCTANCE: Maximum, 483 microsiemens Aug. 18, 1975; minimum, 33 microsiemens March 23, 1980.

pH: Maximum, 9.7 units July 3, 1975; minimum, 4.9 units Apr. 23, 1976.

WATER TEMPERATURES: Maximum, 33.0°C July 12, 1970; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 19.2 mg/L Feb. 17, 1980; minimum 0.6 mg/L Aug. 11, 1970.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD	TEMPER- ATURE AIR	TEMPER- ATURE WATER	TUR- BID- ITY	OXYGEN, DIS- SOLVED	OXYGEN, DIS- SOLVED	FECAL COLI- FORM, MFC MF, WATER	ENTERO- COCCI, MEI MF, WATER	HARD- NESS TOTAL	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	
		(US/CM) (00095)	UNITS) (00400)	(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(MG/L) (00300)	(PER- CENT SATUR- ATION) (00301)	(COL/ 100 ML) (31616)	(COL/ 100 ML) (90909)	(CAC03) (00900)	(MG/L AS (00915)	(MG/L AS MG) (00925)	
OCT 22...	1025	183	7.4	18.5	16.0	3.0	9.1	92	131	1k	49	14.9	2.89	
DEC 19...	1130	151	7.3	8.0	6.0	.96	12.5	101	3100	310k	42	13.1	2.14	
FEB 20...	1050	152	6.9	9.0	3.5	1.8	13.6	101	220	540	38	11.6	2.13	
APR 01...	1100	125	6.6	14.0	7.5	2.2	12.7	106	--	177	32	10.1	1.69	
JUN 03...	1000	126	7.2	20.0	20.0	4.8	7.6	84	106k	8k	33	10.1	1.79	
AUG 27...	1015	185	6.9	26.0	25.5	2.0	5.6	68	2k	2k	47	15.1	2.24	
Date		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
OCT 22...	15.8	2.45	0	39	32	12.9	24.6	.1	2.65	104	102	.038	.68	
DEC 19...	11.3	1.52	0	35	29	10.1	16.7	.1	4.53	92	96	.013	.52	
FEB 20...	12.2	1.33	0	31	25	10.1	20.1	E.1n	5.23	86	90	.015	.55	
APR 01...	10.0	1.09	0	23	19	8.1	15.4	.1	5.68	77	88	E.005	.34	
JUN 03...	8.71	1.22	0	29	24	7.9	14.1	E.1n	5.22	72	78	.010	.37	
AUG 27...	13.2	2.10	0	40	33	10.3	19.3	E.1n	3.03	110	91	.015	.45	
Date		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
OCT 22...	.11	.38	.49	.38	1.2	.151	.128	.10	4	.14	19	<.06	E.03	
DEC 19...	.14	.27	.41	.39	.93	.082	.067	.05	8	.10	14	<.06	E.02	
FEB 20...	.13	.24	.37	.33	.92	.071	.053	.04	16	.13	14	<.06	E.02	
APR 01...	.08	.25	.33	.20	.67	.059	.025	E.01	18	<.05	12	<.06	<.04	
JUN 03...	.09	.27	.36	.26	.73	.061	.035	.02	14	E.05	15	<.06	<.04	
AUG 27...	E.03	--	.37	.25	.81	.055	.050	.04	11	.09	16	<.06	E.02	



## 01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 22...	<.8	.07	2.4	21	.09	3.8	.9	1.00	<1	3	.07	4.1
DEC 19...	<.8	.07	1.6	81	.21	12.7	.5	.65	<1	2	.08	3.4
FEB 20...	<.8	.08	1.4	85	.16	27.6	.4	.59	<1	3	.09	3.3
APR 01...	<.8	.06	1.2	67	.11	18.9	E.1	.42	<1	2	.06	4.4
JUN 03...	<.8	.06	1.6	102	.18	14.1	.3	1.05	<1	1	.06	4.1
AUG 27...	E.7	.07	1.8	27	.14	13.1	.8	.88	<1	4	.08	3.6

Value qualifier codes used in this report:

k -- Counts outside acceptable range

n -- Below the NDV

## 01193500 SALMON RIVER NEAR EAST HAMPTON, CT

**LOCATION.**--Lat 41°32'53", long 72°26'59", Middlesex County, Hydrologic Unit 01080205, on left bank at Rt. 16 Bridge, 450 ft downstream from New London-Middlesex County line, 300 ft downstream from Comstock Bridge, 0.7 mi downstream from Dickinson Creek, and 3.5 mi southeast of East Hampton.

**DRAINAGE AREA.**--100 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD of RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 1201: 1929. WDR CT-78-1: 1976 (P). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 64.38 ft above sea level. Prior to June 23, 1974, at datum 2.99 ft higher for site and datum then in use; prior to May 20, 1980, at datum 2.80 ft higher and at site 400 ft upstream; prior to June 24, 1987, at datum 0.67 ft lower for site and datum then in use. Satellite telemetry at station.

REMARKS.--Records good, except those for periods of estimated record, which are fair. Slight regulation at low flow by ponds upstream.

**EXTREMES FOR CURRENT YEAR.--**Peak discharges greater than base discharge of 1,300 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
No peak greater than base discharge.							

Minimum discharge, 4.9 ft<sup>3</sup>/s, Aug. 20, gage height, 1.99 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	18	25	e28	63	53	281	210	241	37	18	14
2	64	17	24	e27	77	51	227	193	159	33	23	37
3	48	19	22	e26	e60	385	186	241	116	29	71	49
4	33	23	23	e26	e56	296	215	178	98	31	40	97
5	26	23	22	e25	e53	159	173	145	115	28	25	58
6	22	23	21	e25	e49	121	150	129	144	24	18	34
7	21	23	21	84	e46	107	135	122	584	21	14	23
8	18	21	21	79	e45	96	127	115	390	20	13	19
9	17	20	27	68	e43	89	123	102	224	20	11	15
10	16	20	29	63	e41	134	131	97	165	26	9.4	13
11	15	19	29	71	96	117	120	89	132	24	8.3	11
12	15	18	32	85	e70	100	110	93	121	19	7.7	9.0
13	14	17	32	100	e60	91	109	378	124	18	7.1	7.9
14	14	17	32	113	e54	91	114	949	129	17	6.5	7.1
15	20	18	44	110	e50	83	150	455	196	20	6.2	8.7
16	23	18	37	95	50	83	150	278	213	31	5.7	56
17	19	18	31	77	54	81	122	223	202	21	5.7	48
18	17	18	76	e57	60	81	105	654	140	17	5.3	29
19	17	17	84	e54	54	92	99	586	143	15	5.2	20
20	16	18	63	e70	52	124	99	345	214	37	6.2	16
21	16	22	49	e73	81	215	94	262	117	25	7.3	14
22	14	21	e42	e83	76	176	103	220	93	19	6.2	13
23	14	20	39	78	64	135	143	194	85	24	5.9	61
24	15	20	73	105	55	120	123	168	72	52	5.8	43
25	15	21	81	102	52	105	112	151	61	36	6.9	27
26	14	35	60	73	50	107	192	138	56	26	6.5	22
27	14	33	e46	66	53	505	145	135	51	20	6.1	120
28	13	28	e38	59	59	335	206	143	50	21	5.7	122
29	13	25	e32	56	---	210	386	142	47	45	13	68
30	17	25	e30	58	---	198	252	122	41	30	35	45
31	18	---	e29	59	---	185	---	125	---	21	21	---
TOTAL	685	635	1214	2095	1623	4725	4682	7382	4523	807	425.7	1106.7
MEAN	22.1	21.2	39.2	67.6	58.0	152	156	238	151	26.0	13.7	36.9
MAX	87	35	84	113	96	505	386	949	584	52	71	122
MIN	13	17	21	25	41	51	94	89	41	15	5.2	7.1
CFSM	0.22	0.21	0.39	0.68	0.58	1.52	1.56	2.38	1.51	0.26	0.14	0.37
IN.	0.25	0.24	0.45	0.78	0.60	1.76	1.74	2.75	1.68	0.30	0.16	0.41

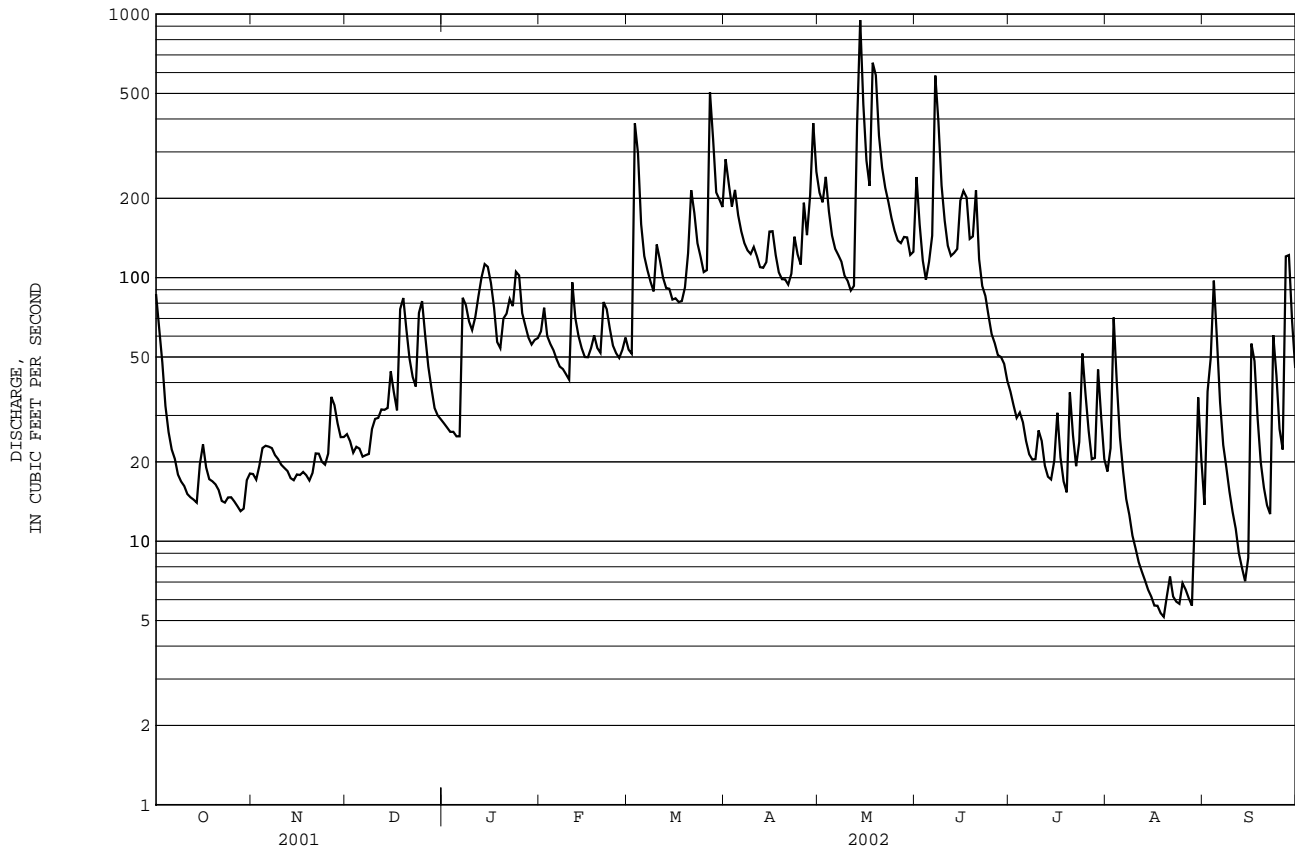
## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

MEAN	87.0	159	214	249	251	371	336	223	137	63.1	54.0	64.0
MAX	734	551	641	1144	623	797	803	482	801	426	357	834
(WY)	1956	1956	1973	1979	1973	1936	1983	1989	1982	1938	1955	1938
MIN	12.4	21.2	39.2	25.2	58.0	152	110	82.6	22.4	8.41	7.50	5.80
(WY)	1931	2002	2002	1981	2002	2002	1985	1986	1957	1957	1957	1943

e Estimated.

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	51230.4		29903.4		184	
ANNUAL MEAN	140		81.9		326	
HIGHEST ANNUAL MEAN					81.9	
LOWEST ANNUAL MEAN					1973	
HIGHEST DAILY MEAN	2300	Mar 22	949	May 14	8720	Sep 21 1938
LOWEST DAILY MEAN	7.9	Sep 13	5.2	Aug 19	1.0	Oct 13 1929
ANNUAL SEVEN-DAY MINIMUM	10	Sep 7	5.8	Aug 14	3.0	Sep 6 1963
MAXIMUM PEAK FLOW			1180	May 14	18500	Jun 6 1982
MAXIMUM PEAK STAGE			5.19	May 14	14.40	Jun 6 1982
INSTANTANEOUS LOW FLOW			4.9	Aug 20	0.90	Jan 19 1997
ANNUAL RUNOFF (CFSM)	1.40		0.82		1.84	
ANNUAL RUNOFF (INCHES)	19.06		11.12		24.95	
10 PERCENT EXCEEDS	385		188		401	
50 PERCENT EXCEEDS	73		50		115	
90 PERCENT EXCEEDS	17		14		18	



## CONNECTICUT RIVER BASIN

## 01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--September 1953, April 1954, October 1960 to September 1961, June 1968 to current year.

## PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1975 to September 1993.

pH: December 1984 to September 1992.

WATER TEMPERATURES: March 1975 to April 1993.

DISSOLVED OXYGEN: January 1985 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: January 1982 to September 1986, October 1987 to September 1990.

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE: March 1987 to September 1987.

INSTRUMENTATION.--Water-quality 2-channel mini-monitor March 1975 to September 1984, August 1993 to September 1993.

Water-quality 4-channel mini-monitor October 1984 to April 1993.

## EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 257 microsiemens Jan. 1, 1990; minimum, 23 microsiemens February 23, 1978.

pH: Maximum, 8.8 units Oct. 14, 1985, Aug. 9, 18, 19, 1987; minimum 6.2 units Dec. 19, 1986, Jan. 24, March 13, Sept. 30, 1992.

WATER TEMPERATURES: Maximum, 32.0°C Aug. 2, 1975; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 17.1 mg/L March 9, 1986; minimum 0.2 mg/L Dec. 3, 1986.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,870 mg/L June 6, 1982; minimum daily mean, 0 mg/L on numerous days.

SEDIMENT LOADS: Maximum daily, 95,400 tons June 6, 1982; minimum daily, 0 tons on numerous days.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO- COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	
OCT 11...	0940	15	124	7.8	20.0	11.0	2.2	12.0	107	5k	8k	27	7.40	
JAN 24...	0850	106	151	6.9	2.5	.5	1.3	15.5	108	45	43	27	7.32	
APR 10...	1315	133	113	7.2	18.5	14.0	.84	10.5	76	7k	9k	21	5.58	
JUL 29...	0930	48	109	7.3	31.0	21.0	4.2	8.9	101	--	--e	21	5.74	
Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	
	OCT 11...	2.08	11.6	2.20	0	17	14	9.5	20.3	<.1	10.3	82	74	<.008
	JAN 24...	2.16	14.3	2.00	0	13	11	11.7	27.4	<.1	9.98	94	98	<.008
	APR 10...	1.67	9.98	1.59	0	11	9	10.1	17.2	E.1n	5.34	70	70	<.008
	JUL 29...	1.67	9.74	2.12	0	17	14	7.0	16.0	<.1	7.70	69	49	E.005
Date	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	
	OCT 11...	.05	<.04	.21	.16	.26	.009	E.003	<.02	8	<.05	8	<.06	.07
	JAN 24...	.29	<.04	.24	.15	.53	.009	E.004	<.02	16	E.04	9	<.06	<.04
	APR 10...	.14	<.04	.20	.16	.34	.008	.005	<.02	21	.07	8	<.06	<.04
	JUL 29...	.26	<.04	.30	.18	.56	.023	.007	<.02	18	.11	8	<.06	<.04

## 01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 11...	<.8	.05	.7	54	<.08	4.1	<.2	.37	<1	1	.02	3.3
JAN 24...	<.8	.09	.3	99	.11	10.9	<.2	.61	<1	2	.03	3.3
APR 10...	<.8	.08	.5	78	.10	6.6	<.2	.58	<1	1	.03	3.3
JUL 29...	<.8	.04	.6	106	.12	7.8	<.2	.76	<1	<1	.02	4.6

Value qualifier codes used in this report:

k -- Counts outside acceptable range  
n -- Below the NDV

Null value qualifier codes used in this report:

e -- Required equipment not functional/avail

## CONNECTICUT RIVER BASIN

## 01193750 CONNECTICUT RIVER AT EAST HADDAM, CT

**LOCATION.**--Lat 41°27'05", long 72°27'55", Middlesex County, Hydrologic Unit 01080205, at bridge on State Rt. 82, at East Haddam, 1.1 mi downstream from Salmon River and 3.7 mi upstream from Chester Creek.

**DRAINAGE AREA.**--11,092 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water years 1968, 1974 to current year.

**REMARKS.**--Stream tidal affected.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD	TEMPER- ATURE AIR	TEMPER- ATURE WATER	TUR- BID- ITY	OXYGEN, DIS- SOLVED	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	FECAL COLI- FORM, MFC MF,	ENTERO- COCCI, MEI MF,	HARD- NESS TOTAL	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	
		(US/CM) (00095)	(UNITS) (00400)	(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(MG/L) (00300)	(00301)	(COL/ 100 ML) (31616)	(COL/ 100 ML) (90909)	(MG/L AS CACO3) (00900)	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	
OCT 22...	0945	181	7.3	18.5	16.0	.43	10.2	103	10k	1k	49	14.9	2.86	
DEC 19...	1100	150	7.2	8.0	5.0	.57	12.8	101	960	116	40	12.8	1.99	
FEB 20...	1015	156	7.2	9.0	3.5	1.9	13.9	104	132	61	38	11.8	2.15	
APR 01...	1030	133	7.1	14.0	7.0	4.4	12.1	99	--	72k	33	10.3	1.75	
JUN 03...	0915	129	6.7	20.0	19.5	4.9	7.7	84	152	15k	32	10.0	1.78	
AUG 27...	0915	177	7.0	24.0	25.5	2.4	6.0	74	8k	2k	41	12.4	2.47	
Date		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED TOTAL (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, DIS- SOLVED TOTAL (MG/L) (00500)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
OCT 22...	15.5	2.40	0	37	30	12.6	24.0	.1	1.89	104	104	.024	.58	
DEC 19...	11.0	1.55	0	37	30	10.0	16.6	.1	4.27	90	92	.012	.48	
FEB 20...	12.4	1.38	0	33	27	10.5	19.8	E.1n	5.41	92	92	.015	.55	
APR 01...	10.6	1.17	0	26	21	8.7	16.9	.1	5.67	84	91	E.005	.36	
JUN 03...	8.85	1.22	0	29	24	8.2	14.4	E.1n	5.13	73	75	.011	.39	
AUG 27...	13.9	2.15	0	38	31	11.9	21.2	.1	3.64	107	98	.029	.64	
Date		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
OCT 22...	<.04	--	.47	.27	1.0	.128	.091	.07	6	.13	18	<.06	E.03	
DEC 19...	.12	.30	.42	.30	.89	.073	.057	.04	8	.07	13	<.06	E.02	
FEB 20...	.14	.25	.39	.34	.94	.087	.064	.05	11	.07	14	<.06	E.02	
APR 01...	.06	.26	.32	.21	.68	.073	.021	E.01	17	<.05	13	<.06	<.04	
JUN 03...	.08	.26	.34	.24	.73	.064	.038	.02	15	.06	14	<.06	<.04	
AUG 27...	.18	.29	.46	.42	1.1	.143	.131	.11	6	.12	18	<.06	E.02	

## 01193750 CONNECTICUT RIVER AT EAST HADDAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 22...	<.8	.08	2.2	20	.09	1.2	.9	1.01	<1	2	.08	4.5
DEC 19...	<.8	.06	1.5	73	.16	9.7	.4	.66	<1	3	.08	3.3
FEB 20...	<.8	.07	1.3	80	.12	25.6	.4	.76	<1	3	.09	3.2
APR 01...	<.8	.06	1.3	69	.11	21.0	E.2	.45	<1	3	.06	4.2
JUN 03...	<.8	.05	1.5	91	.18	10.1	.3	1.16	<1	1	.06	4.5
AUG 27...	<.8	.06	2.7	15	.17	12.9	1.2	.86	<1	5	.05	4.0

Value qualifier codes used in this report:

k -- Counts outside acceptable range

n -- Below the NDV

## CONNECTICUT RIVER BASIN

## 01194500 EAST BRANCH EIGHTMILE RIVER NEAR NORTH LYME, CT

**LOCATION.**--Lat 41°25'40", long 72°20'05", New London County, Hydrologic Unit 01080205, on left bank at State Rt. 156 bridge, 0.7 mi south of intersection of State Rt. 82, 0.4 mi upstream from confluence of Eightmile River, and 5.5 mi above mouth.  
**DRAINAGE AREA.**--22.3 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--September 1937 to 1981, August 30, 2001 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 53.97 ft above sea level. Prior to Oct. 1, 1964, at datum 1.00 ft higher.

Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 372 ft<sup>3</sup>/s, May 14, gage height, 4.03 ft; minimum discharge, 0.96 ft<sup>3</sup>/s, Aug. 19, 20, gage height, 1.22 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	9.2	9.8	e9.1	e13	e14	82	83	83	5.9	2.5	2.7
2	38	8.2	9.3	e8.9	e12	e14	76	69	43	5.5	3.9	7.4
3	17	8.4	8.6	e8.6	e12	130	52	95	24	5.2	4.5	11
4	11	9.0	8.2	e8.3	e12	127	51	63	18	4.8	4.0	18
5	9.0	9.4	9.9	e8.2	e11	57	41	44	19	4.3	3.2	18
6	8.3	9.3	8.4	e8.1	e11	38	34	36	25	3.8	2.7	8.5
7	7.8	8.8	7.8	18	e11	31	31	31	160	3.6	2.2	5.7
8	7.3	8.1	7.7	e16	e11	27	28	28	106	3.5	1.9	4.4
9	6.6	8.3	10	14	e11	25	28	24	49	3.9	1.7	3.6
10	6.5	8.0	12	e13	e11	38	38	25	31	3.9	1.6	2.9
11	6.5	7.9	11	e12	32	40	36	21	23	3.3	1.4	2.7
12	6.6	7.7	10	18	e26	29	29	21	20	3.2	1.4	1.9
13	6.6	7.6	9.7	21	e21	26	28	81	18	2.8	1.3	1.8
14	6.6	7.8	9.8	24	e16	26	31	313	20	2.6	1.2	1.6
15	8.1	8.1	12	22	e14	24	30	141	33	2.5	1.2	3.0
16	8.1	7.9	11	e20	e14	22	28	79	37	4.2	1.1	61
17	8.0	7.7	11	e18	e15	21	24	57	62	4.2	1.2	46
18	7.9	7.4	17	e16	19	22	21	175	35	3.5	1.1	15
19	7.9	7.4	20	e15	e16	27	20	200	22	3.2	1.0	9.0
20	7.8	7.6	16	e14	e14	39	19	101	18	3.4	1.1	6.9
21	8.1	8.2	14	e13	25	93	18	73	15	3.0	1.3	5.5
22	7.0	8.1	11	e12	27	68	19	58	13	2.8	1.2	4.7
23	7.3	7.6	9.8	17	21	41	27	46	12	2.7	1.1	6.1
24	7.7	7.6	19	24	18	32	23	38	11	3.1	1.1	8.8
25	7.4	8.0	22	28	16	28	23	32	9.5	3.0	1.2	6.8
26	7.3	12	15	e21	e15	26	50	27	8.4	2.7	1.2	5.9
27	7.0	12	e14	e18	e15	127	36	26	7.9	2.6	1.1	22
28	6.8	11	e12	e17	e14	104	44	32	8.2	2.6	0.99	41
29	8.5	9.7	e11	e15	---	60	105	33	7.5	3.0	1.7	22
30	8.7	9.7	e9.8	e14	---	47	68	26	6.2	3.0	3.6	13
31	9.1	---	e9.4	e13	---	40	---	25	---	2.8	3.2	---
TOTAL	322.5	257.7	366.2	484.2	453	1443	1140	2103	944.7	108.6	57.89	366.9
MEAN	10.4	8.59	11.8	15.6	16.2	46.5	38.0	67.8	31.5	3.50	1.87	12.2
MAX	52	12	22	28	32	130	105	313	160	5.9	4.5	61
MIN	6.5	7.4	7.7	8.1	11	14	18	21	6.2	2.5	0.99	1.6
CFM	0.47	0.39	0.53	0.70	0.73	2.09	1.70	3.04	1.41	0.16	0.08	0.55
IN.	0.54	0.43	0.61	0.81	0.76	2.41	1.90	3.51	1.58	0.18	0.10	0.61

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

MEAN	20.1	41.3	56.7	62.8	66.0	92.1	76.9	55.5	28.0	14.3	11.3	14.1
MAX	183	132	151	265	124	191	138	140	146	96.9	61.1	160
(WY)	1956	1973	1973	1979	1951	1953	1980	1978	1972	1938	1955	1938
MIN	1.93	8.59	9.37	9.27	15.1	46.5	34.7	23.4	4.97	1.23	0.72	0.40
(WY)	1942	2002	1944	1981	1980	2002	1966	1962	1957	1957	1944	1943

e Estimated.



## 01194500 EAST BRANCH EIGHTMILE RIVER NEAR NORTH LYME, CT--Continued

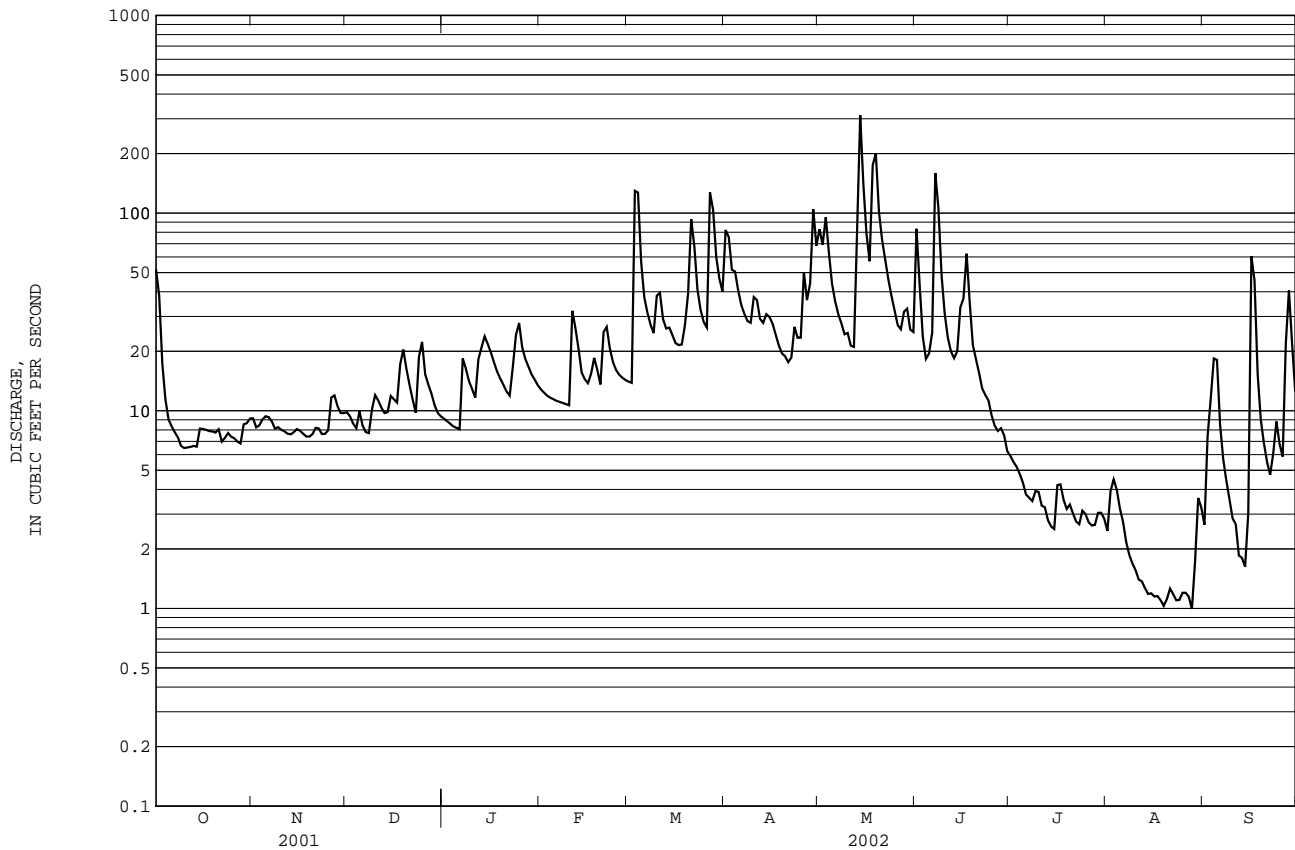
## SUMMARY STATISTICS

## FOR 2002 WATER YEAR

## WATER YEARS 1938 - 2002

ANNUAL TOTAL	8047.69			
ANNUAL MEAN	22.0		44.8	
HIGHEST ANNUAL MEAN			72.0	1973
LOWEST ANNUAL MEAN			22.0	2002
HIGHEST DAILY MEAN	313	May 14	1490	Oct 16 1955
LOWEST DAILY MEAN	0.99	Aug 28	0.03	Oct 2 1941
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 22	0.16	Sep 6 1944
MAXIMUM PEAK FLOW	372	May 14	2950	Sep 21 1938
MAXIMUM PEAK STAGE	4.03	May 14	7.00	Sep 21 1938
INSTANTANEOUS LOW FLOW	<sup>a</sup> 0.96	Aug 19	0.00	Sep 3 1938
ANNUAL RUNOFF (CFSM)	0.99		2.01	
ANNUAL RUNOFF (INCHES)	13.42		27.32	
10 PERCENT EXCEEDS	48		100	
50 PERCENT EXCEEDS	12		28	
90 PERCENT EXCEEDS	2.8		3.3	

<sup>a</sup> Also occurred Aug. 20.



**LOCATION.**--Lat 41°18'45", long 72°20'47", New London County, Hydrologic Unit 01080205, on left bank at Connecticut Department of Environmental Protection Marine Headquarters boat dock gas house, 1,000 ft upstream from railroad bridge, near mouth of Connecticut River.

PERIOD of RECORD.--June 1976 to current year

**GAGE.**---Water-stage recorder. Datum of reference gage is sea level. Prior to Feb. 1978, at site at Lynde Point, at datum 9.68 ft below sea level. Prior to June 1998, at site in jetty lighthouse at the mouth of the Connecticut River, at datum 4.56 ft below sea level. Telephone telemetry at station.

**REMARKS.**--Stage data in feet at 5-minute intervals available upon request.

**EXTREMES FOR CURRENT YEAR.**--Maximum tidal elevation recorded, 3.87 ft, Apr. 25; minimum, -2.77 ft, Jan. 14.

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	3.55	0.17	2.66	-1.19	2.94	-1.22	2.63	-2.01	3.35	-0.79	2.06	-1.92
2	3.19	-0.39	2.82	-1.04	2.63	-1.55	2.03	-2.21	2.31	-1.95	2.43	-1.87
3	2.89	-0.61	2.73	-1.15	2.77	-1.33	2.40	-1.61	2.43	-1.10	3.21	-0.91
4	2.89	-0.71	2.95	-0.90	2.48	-1.44	2.29	-1.35	3.01	-0.60	2.47	-1.60
5	2.77	-0.73	2.60	-1.33	2.56	-1.22	2.21	-1.40	2.96	-0.62	1.67	-1.68
6	2.89	-0.92	2.57	-0.94	2.53	-1.29	2.21	-1.00	2.10	-1.23	1.74	-1.37
7	2.49	-1.30	2.08	-1.30	2.11	-1.30	3.17	-1.03	2.53	-0.80	1.56	-1.26
8	1.79	-1.34	2.67	-0.49	2.18	-0.88	2.67	-1.12	2.77	-0.94	1.97	-0.96
9	2.40	-1.20	2.83	-1.17	3.31	-0.91	2.30	-1.49	2.63	-1.15	1.89	-1.18
10	1.94	-1.26	2.41	-1.14	2.86	-1.08	2.31	-1.63	2.63	-0.95	2.21	-1.87
11	2.64	-0.98	2.44	-1.38	2.82	-1.31	3.04	-1.10	2.63	-1.68	1.31	-2.47
12	2.84	-0.87	2.54	-1.62	3.02	-1.16	2.22	-1.52	3.06	-0.81	1.96	-1.36
13	3.08	-0.82	2.68	-1.76	3.46	-0.87	3.20	-1.89	2.13	-1.76	2.43	-0.87
14	3.47	-0.69	2.60	-1.76	3.14	-1.07	1.26	-2.77	1.97	-1.51	2.27	-0.99
15	3.62	-1.15	3.05	-1.45	2.53	-1.39	2.71	-1.00	1.83	-1.23	2.49	-1.07
16	3.46	-1.30	3.08	-1.39	2.63	-1.16	2.02	-1.41	2.13	-0.65	2.47	-1.02
17	3.27	-1.64	3.00	-1.11	3.00	-0.43	2.22	-1.16	2.48	-0.47	2.44	-0.77
18	2.36	-2.08	2.54	-1.30	3.11	-1.00	1.78	-1.35	2.32	-0.79	2.51	-0.72
19	2.72	-1.37	2.29	-1.00	2.55	-0.45	1.87	-0.87	2.81	-0.14	2.77	-0.66
20	2.94	-1.11	2.21	-1.09	2.59	-0.95	2.50	-0.66	2.60	-0.41	2.65	-0.32
21	2.65	-1.01	2.30	-0.61	1.66	-0.76	2.13	-1.15	2.78	-0.20	2.21	-0.84
22	2.27	-0.90	2.04	-0.70	2.02	-0.53	0.61	-1.79	2.48	-0.67	1.64	-2.10
23	2.87	-0.03	2.10	-0.37	2.17	-0.25	1.61	-1.07	2.19	-1.02	1.17	-1.68
24	2.64	-0.05	2.26	-0.32	2.81	-0.42	2.13	-1.06	2.66	-0.99	1.69	-1.43
25	2.64	-0.08	2.32	-0.38	2.37	-0.52	2.66	-1.21	2.87	-1.18	2.30	-1.25
26	2.32	-0.55	2.43	-0.62	2.69	-0.47	2.48	-1.65	3.20	-1.03	3.34	-1.30
27	2.19	-0.77	2.51	-0.74	3.00	-0.98	2.83	-1.43	3.58	-0.98	3.10	-1.14
28	2.28	-0.78	2.71	-1.01	2.54	-1.15	3.37	-1.10	2.24	-2.31	2.94	-1.41
29	2.39	-1.03	3.28	-0.53	2.52	-1.35	3.57	-1.15	---	---	3.27	-1.45
30	2.34	-0.97	3.01	-1.11	2.70	-1.75	3.36	-1.22	---	---	3.13	-1.09
31	2.65	-1.06	---	---	2.38	-2.14	3.42	-1.00	---	---	3.12	-1.29
MONTH	3.62	-2.08	3.28	-1.76	3.46	-2.14	3.57	-2.77	3.58	-2.31	3.34	-2.47
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	3.37	-0.93	2.97	-0.8								

## CONNECTICUT RIVER BASIN

### RESERVOIRS IN CONNECTICUT RIVER BASIN

- 01185000 OTIS RESERVOIR.**--Lat 42°09'35", long 73°03'33", Berkshire County, Mass., Hydrologic Unit 01080207, on Fall River in West Branch Farmington River basin, 1 mi northeast of Cold Spring. Drainage area, 15.9 mi<sup>2</sup>. Usable capacity, 780,000,000 ft<sup>3</sup>. Records available, April 1913 to current year. Completed in 1865 for storage of water for power. Records furnished by the Massachusetts Department of Natural Resources, Division of Forests and Parks.
- 01185850 COLEBROOK RIVER LAKE.**--Lat 42°00'22", long 73°02'12", Litchfield County, Conn., Hydrologic Unit 01080207, on West Branch Farmington River, 1.6 mi upstream from West Branch Reservoir and 3.1 mi north of Riverton. Drainage area, 119 mi<sup>2</sup>. Usable capacity, 4,213,000,000 ft<sup>3</sup>. Records available, June 1969 to current year. Completed in June 1969 for multi-purpose use. Records furnished by Corps of Engineers.
- 01185900 WEST BRANCH RESERVOIR.**--Lat 41°59'22", long 73°01'15", Hartford County, Hydrologic Unit 01080207, on West Branch Farmington River, 2 mi west of Hartland, and 2 mi north of Riverton. Drainage area, 127 mi<sup>2</sup>. Usable capacity, 374,000,000 ft<sup>3</sup>. Records available, March 1960 to current year. Completed in April 1960 for future storage of water for municipal supply of Hartford. Presently used to compensate for water diverted from the river. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01186090 MAD RIVER DETENTION RESERVOIR.**--Lat 41°55'53", long 73°05'33", Litchfield County, Conn., Hydrologic Unit 01080207, on Mad River in West Branch Farmington River basin, 1.4 mi northwest of Winsted. Drainage area, 18.3 mi<sup>2</sup>. Usable capacity, 423,000,000 ft<sup>3</sup>, including 8,000,000 ft<sup>3</sup> storage in recreation pool. Records available, September 1964 to current year. Completed in 1962 by Corps of Engineers for storage of water for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01186150 SUCKER BROOK RESERVOIR.**--Lat 41°54'90", long 73°06'00", Litchfield County, Conn., Hydrologic Unit 01080207, at mouth of Sucker Brook, a tributary of Highland Lake in West Branch Farmington River basin, 2 mi southwest of Winsted. Drainage area, 3.50 mi<sup>2</sup>. Usable capacity, 64,500,000 ft<sup>3</sup>. Records available, February 1971 to current year. Completed in 1970 by Corps of Engineers for storage of water for flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01186160 HIGHLAND LAKE.**--Lat 41°55'22", long 73°04'58", Litchfield County, Conn., Hydrologic Unit 01080207, at head of the Lake Stream, a tributary of Mad River in West Branch Farmington River basin, at Winsted, and 0.4 mi upstream from Mad River. Drainage area, 7.05 mi<sup>2</sup>. Usable capacity, 144,400,000 ft<sup>3</sup>, based on lake survey by Connecticut Board of Fisheries and Game. Records available, September 1936 to current year. Dam raised to its present crest elevation in 1875. Lake used for storage of water for power, recreation, and flood control. Capacity and contents figures computed by U.S. Geological Survey.
- 01187500 BARKHAMSTED RESERVOIR.**--Lat 41°54'38", long 72°57'15", Litchfield County, Conn., Hydrologic Unit 01080207, on East Branch Farmington River, 1.2 mi south of Barkhamsted. Drainage area, 52.5 mi<sup>2</sup>. Usable capacity, 4,050,000,000 ft<sup>3</sup>. Records available, October 1950 to current year. For period March 1940 to September 1950, combined month-end contents for Barkhamsted, East Branch, and Nepaug Reservoirs are given in WSP 1301. Completed in 1939 for storage of water for municipal supply of Hartford. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01187600 EAST BRANCH RESERVOIR.**--Lat 41°52'49", long 72°57'30", Litchfield County, Conn., Hydrologic Unit 01080207, on East Branch Farmington River in Farmington River basin, 1 mi east of New Hartford. Drainage area, including Barkhamsted Reservoir, 61.2 mi<sup>2</sup>. Usable capacity, 393,000,000 ft<sup>3</sup>. Records available, October 1950 to current year. For period August 1928 to September 1950, combined month-end contents for Barkhamsted, East Branch, and Nepaug Reservoirs are given in WSP 1301. Completed in 1919 for storage of water to compensate for water diverted from the river for municipal supply of Hartford. Since the construction of West Branch Reservoir in April 1960, it has been used only for recreation. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01187900 NEPAUG RESERVOIR.**--Lat 41°49'37", long 72°56'34", Litchfield County, Conn., Hydrologic Unit 01080207, on Nepaug River in Farmington River basin, 1.5 mi northwest of Collinsville. Drainage area, 31.5 mi<sup>2</sup>. Usable capacity, 1,270,000,000 ft<sup>3</sup>. Records available, August 1928 to current year. Completed in 1918 for storage of water for municipal supply of Hartford. Records furnished by Water Bureau, Metropolitan District Commission, Hartford, Conn.
- 01188500 WHIGVILLE RESERVOIR.**--Lat 41°44'08", long 72°57'02", Hartford County, Conn., Hydrologic Unit 01080207, on Whigville Brook in Pequabuck River basin, at Whigville. Drainage area, 4.10 mi<sup>2</sup>. Usable capacity, 5,050,000 ft<sup>3</sup>. Records available, July 1928 to current year. Completed in 1908 for storage of water for municipal supply of New Britain. Records furnished by Board of Water Commissioners, New Britain, Conn.

## INDIAN RIVER BASIN

## 01195100 INDIAN RIVER NEAR CLINTON, CT

**LOCATION.**--Lat 41°18'21", long 72°31'54", Middlesex County, Hydrologic Unit 01100004, on right downstream side of bridge at Hurd Bridge Rd., 2.0 mi north of Clinton.

**DRAINAGE AREA.**--5.68 mi<sup>2</sup>.

**PERIOD OF RECORD.**--July 1961 to September 1973, occasional low-flow measurements. November 1981 to current year.

**REVISED RECORDS.**--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 34.81 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 100 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
------	------	-----------------------------------	---------------------	------	------	-----------------------------------	---------------------

No peak greater than base discharge.

Minimum discharge, 0.01 ft<sup>3</sup>/s, Aug. 20, gage height, 1.32 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	0.69	0.95	e0.95	4.2	3.0	21	18	6.9	0.52	0.17	0.16
2	4.5	0.77	0.91	e0.92	5.0	2.8	16	19	4.9	0.57	0.17	1.6
3	2.1	0.81	0.82	e0.86	3.7	20	13	26	3.7	0.55	0.18	2.8
4	1.4	0.85	0.73	e0.83	e3.1	15	13	16	3.0	0.48	0.16	5.5
5	0.96	0.83	0.71	e0.80	e2.7	8.9	11	13	5.1	0.35	0.16	2.7
6	0.73	0.97	0.71	e0.77	e2.5	7.1	9.5	11	6.1	0.32	0.15	0.96
7	0.68	0.72	0.71	6.2	e2.3	6.3	8.5	9.9	31	0.31	0.13	0.55
8	0.62	0.63	0.73	4.2	e2.2	5.5	8.1	9.1	15	0.29	0.13	0.45
9	0.52	0.61	2.5	3.1	e2.1	5.3	8.1	8.1	8.4	0.31	0.14	0.32
10	0.50	0.57	2.6	e2.6	e2.0	6.1	12	7.9	6.2	0.36	0.14	0.27
11	0.57	0.64	1.6	e2.2	6.2	5.3	9.7	6.7	4.9	0.34	0.13	0.21
12	0.42	0.61	1.3	4.5	4.9	4.8	8.2	7.3	4.2	0.31	0.11	0.31
13	0.42	0.59	1.0	6.7	3.9	4.8	8.1	22	3.9	0.27	0.13	0.31
14	0.43	0.63	1.1	7.0	3.1	5.6	8.4	60	4.6	0.27	0.12	0.28
15	0.49	0.69	1.5	5.9	3.0	4.9	8.1	24	9.8	0.24	0.12	0.35
16	0.84	0.87	1.5	4.9	3.1	4.6	7.3	15	8.0	0.24	0.11	25
17	0.76	0.85	1.2	4.1	4.0	4.1	6.8	12	7.0	0.20	0.14	15
18	0.66	0.71	4.7	e3.6	5.0	4.7	6.3	48	4.7	0.19	0.13	5.6
19	0.55	0.70	4.5	e3.1	3.8	7.4	5.8	32	3.4	0.23	0.08	2.7
20	0.55	0.77	2.8	e2.7	3.4	12	5.6	19	2.9	0.23	0.11	1.5
21	0.53	0.79	2.1	e2.4	4.5	24	5.3	14	2.4	0.28	0.14	1.0
22	0.47	0.79	1.6	4.2	4.3	13	6.0	12	2.1	0.29	0.13	0.80
23	0.49	0.71	1.4	4.0	3.6	9.5	9.6	9.8	1.7	0.29	0.09	5.7
24	0.56	0.68	5.1	6.2	3.1	8.1	7.0	8.8	1.5	0.27	0.13	4.4
25	0.64	0.79	5.2	5.8	3.0	7.2	7.5	7.6	1.1	0.29	0.15	2.3
26	0.65	2.2	3.3	4.5	3.0	7.0	16	6.8	0.96	0.26	0.14	1.5
27	0.58	1.7	e2.5	3.9	3.1	e21	9.8	6.7	0.98	0.22	0.13	13
28	0.67	1.1	e2.0	3.5	3.6	e18	20	7.0	1.2	0.22	0.12	14
29	0.62	0.91	e1.7	3.3	---	e16	27	8.0	1.2	0.22	0.20	7.3
30	0.55	0.91	e1.4	3.2	---	13	17	6.2	0.83	0.18	0.15	4.3
31	0.61	---	e1.1	3.1	---	11	---	5.5	---	0.18	0.15	---
TOTAL	31.37	25.09	59.97	110.03	98.4	286.0	319.7	476.4	157.67	9.28	4.24	120.87
MEAN	1.01	0.84	1.93	3.55	3.51	9.23	10.7	15.4	5.26	0.30	0.14	4.03
MAX	7.3	2.2	5.2	7.0	6.2	24	27	60	31	0.57	0.20	25
MIN	0.42	0.57	0.71	0.77	2.0	2.8	5.3	5.5	0.83	0.18	0.08	0.16
CFSM	0.18	0.15	0.34	0.62	0.62	1.62	1.88	2.71	0.93	0.05	0.02	0.71
IN.	0.21	0.16	0.39	0.72	0.64	1.87	2.09	3.12	1.03	0.06	0.03	0.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

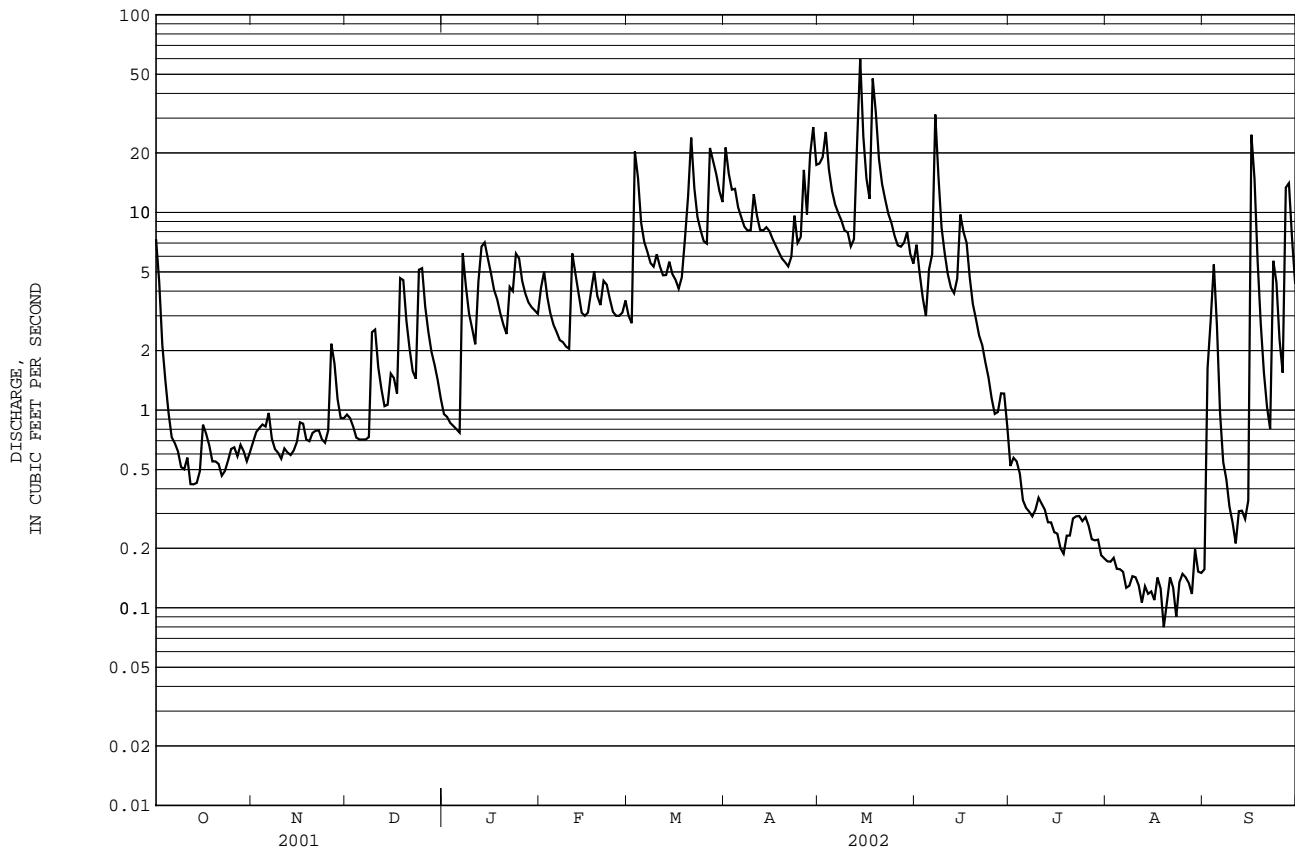
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	4.78	9.62	13.2	13.5	14.0	17.8	17.1	11.4	9.33	2.33	3.00	2.10									
MAX	24.0	26.7	36.8	25.2	29.3	37.7	38.9	21.3	57.1	13.4	12.5	7.30									
(WY)	1991	1984	1984	1982	1984	1994	1983	1989	1982	1984	1992	1992									
MIN	0.30	0.84	1.77	3.55	3.51	8.57	6.16	3.55	1.11	0.30	0.14	0.19									
(WY)	1998	2002	1999	2002	2002	1990	1985	1986	1994	2002	2002	1997									

e Estimated.

## 01195100 INDIAN RIVER NEAR CLINTON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1982 - 2002	
ANNUAL TOTAL	3473.98		1699.02		9.59	
ANNUAL MEAN	9.52		4.65		16.8	
HIGHEST ANNUAL MEAN					4.65	
LOWEST ANNUAL MEAN					16.8	
HIGHEST DAILY MEAN	208	Mar 22	60	May 14	576	Jun 6 1982
LOWEST DAILY MEAN	0.18	Sep 12	0.08	Aug 19	0.00	Jul 22 1991
ANNUAL SEVEN-DAY MINIMUM	0.21	Sep 7	0.12	Aug 14	0.02	Aug 9 1993
MAXIMUM PEAK FLOW			87	May 14	a2600	Jun 6 1982
MAXIMUM PEAK STAGE			3.07	May 14	b8.29	Jun 6 1982
INSTANTANEOUS LOW FLOW			0.01	Aug 20	c0.00	Jul 22 1991
ANNUAL RUNOFF (CFSM)	1.68		0.82		1.69	
ANNUAL RUNOFF (INCHES)	22.75		11.13		22.94	
10 PERCENT EXCEEDS	22		12		21	
50 PERCENT EXCEEDS	3.2		2.5		5.6	
90 PERCENT EXCEEDS	0.48		0.21		0.49	

a From contracted-opening measurement.  
b From digital recorder and floodmarks in gage well.  
c Also occurred on July 23, 1991.



## QUINNIPIAC RIVER BASIN

## 01195490 QUINNIPIAC RIVER AT SOUTHTON, CT

**LOCATION.**--Lat 41°36'06", long 72°53'03", Hartford County, Hydrologic Unit 01100004, on west bank, 400 ft downstream from bridge on Mill St., and 500 ft upstream from bridge on Center St. in Southington.

**DRAINAGE AREA.**--17.4 mi<sup>2</sup>.

**PERIOD of RECORD.**--November 1987 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 138.47 ft above sea level. Telephone telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 200 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 14	0430	*203	*5.40	No other peak greater than base discharge.			

Minimum discharge, 2.8 ft<sup>3</sup>/s, Aug. 19, 20, gage height, 2.49 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	5.2	5.6	5.1	11	7.0	21	22	62	7.5	4.5	6.1
2	16	5.5	5.3	e4.9	14	6.7	17	23	22	7.2	14	33
3	11	6.8	5.1	e4.7	8.4	60	19	47	15	6.8	48	28
4	9.0	6.9	4.9	e4.6	7.3	35	30	23	13	6.5	9.7	41
5	8.0	5.9	5.0	4.9	6.7	16	18	18	23	5.9	6.8	22
6	8.0	5.4	5.1	e5.6	6.2	13	16	16	28	5.6	5.8	9.5
7	7.6	5.2	5.2	8.0	6.2	12	14	15	138	5.5	5.0	8.0
8	6.9	5.2	5.1	7.5	6.2	11	13	15	66	5.3	4.7	6.9
9	6.6	5.2	8.2	6.4	6.1	10	13	13	30	6.8	4.4	6.2
10	6.6	5.1	7.8	6.6	6.7	18	15	14	23	10	4.3	6.1
11	6.5	5.1	6.8	8.0	24	12	13	12	19	6.3	4.1	5.6
12	6.4	4.9	6.4	8.3	12	10	13	14	18	5.4	3.9	5.2
13	6.3	4.8	6.1	9.4	8.9	9.8	13	59	18	4.9	3.8	5.1
14	6.2	4.9	6.3	8.5	7.2	9.6	12	158	19	4.6	3.7	5.0
15	13	4.9	7.9	7.1	6.7	9.1	29	51	27	4.5	3.6	12
16	9.6	5.0	5.9	6.7	7.0	11	19	30	24	4.4	4.3	35
17	6.9	4.9	5.8	6.5	8.6	10	15	25	24	4.2	3.8	11
18	6.2	4.9	22	6.4	8.4	11	13	90	17	4.1	3.2	7.5
19	6.8	4.9	14	5.7	7.0	14	13	85	14	5.0	3.0	6.4
20	6.2	5.8	8.5	5.9	7.0	18	12	38	13	6.9	8.9	5.9
21	5.9	5.6	6.9	5.9	17	31	11	29	12	4.7	5.0	5.5
22	5.7	5.7	6.1	6.0	11	22	12	26	12	4.3	4.1	5.2
23	5.6	5.5	5.6	7.2	8.5	16	16	23	11	12	3.8	8.2
24	e5.5	5.6	18	9.6	7.5	15	12	21	11	18	4.4	5.8
25	e5.4	6.9	12	9.2	7.3	13	14	19	10	6.7	5.0	5.2
26	e5.4	16	8.0	7.5	7.1	15	25	18	10	5.3	3.7	6.7
27	e5.3	8.8	6.8	7.0	8.0	68	14	18	10	4.9	3.5	31
28	5.2	6.5	6.3	6.6	8.1	38	35	20	10	5.1	3.2	24
29	5.1	5.9	6.0	6.6	---	22	62	18	8.9	11	28	10
30	5.1	5.9	5.6	6.9	---	19	29	15	8.1	5.9	33	7.4
31	5.1	---	e5.5	6.7	---	17	---	19	---	4.9	8.6	---
TOTAL	239.1	178.9	233.8	210.0	250.1	579.2	558	994	716.0	200.2	251.8	374.5
MEAN	7.71	5.96	7.54	6.77	8.93	18.7	18.6	32.1	23.9	6.46	8.12	12.5
MAX	26	16	22	9.6	24	68	62	158	138	18	48	41
MIN	5.1	4.8	4.9	4.6	6.1	6.7	11	12	8.1	4.1	3.0	5.0
CFM	0.44	0.34	0.43	0.39	0.51	1.07	1.07	1.84	1.37	0.37	0.47	0.72
IN.	0.51	0.38	0.50	0.45	0.53	1.24	1.19	2.13	1.53	0.43	0.54	0.80

STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	26.0	30.9	30.8	35.5	35.1	50.1	44.0	40.9	30.5	19.7	20.2	18.2			
MAX	89.9	57.8	80.0	64.7	51.3	84.8	71.1	109	68.5	30.1	55.0	55.2			
(WY)	1990	1990	1997	1996	1990	1994	1993	1989	1992	1996	1994	1999			
MIN	7.51	5.96	7.54	6.77	8.93	18.7	18.6	20.8	9.30	6.46	5.19	8.54			
(WY)	1998	2002	2002	2002	2002	2002	2002	1992	1999	2002	1999	1995			

e Estimated.

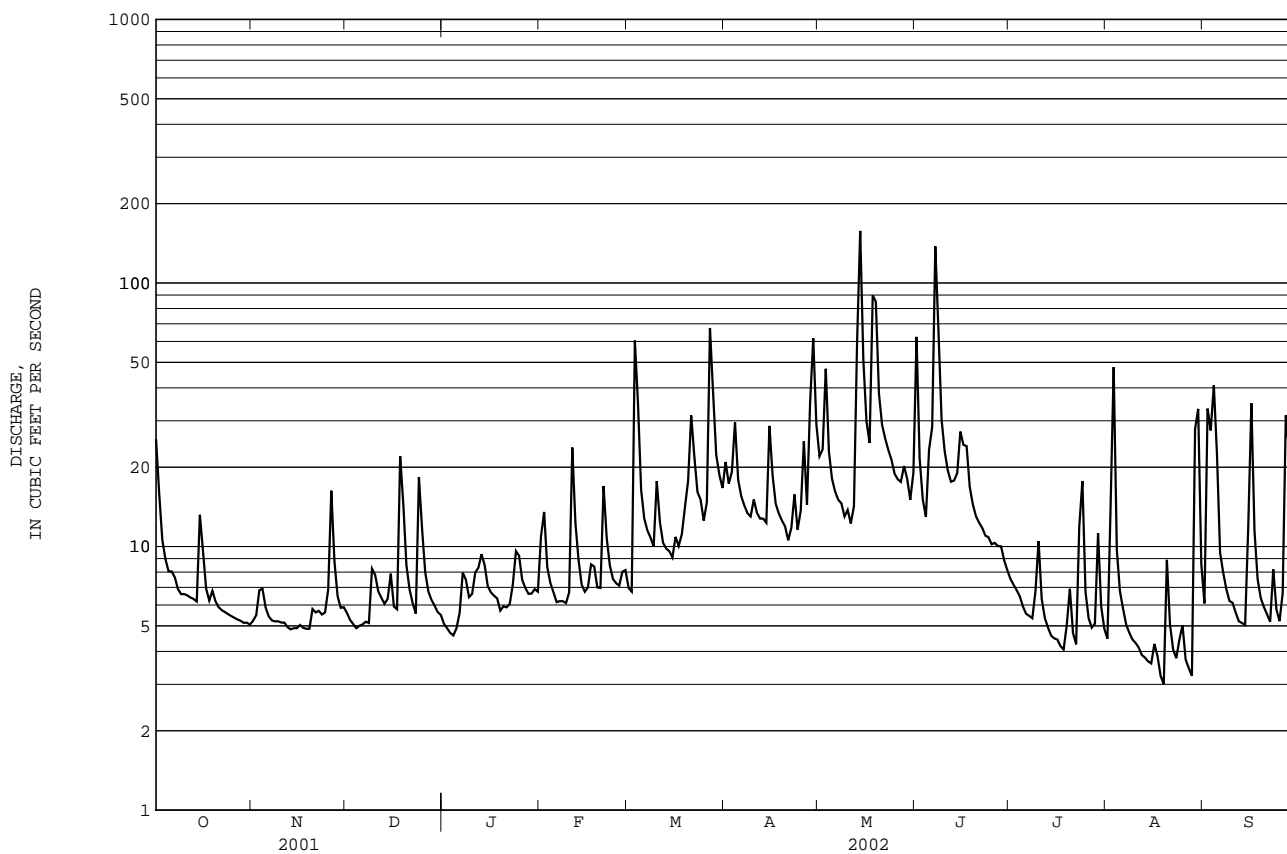
QUINNIPIAC RIVER BASIN

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01195490 QUINNIPIAC RIVER AT SOUTHTON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	9866.9		4785.6		32.3	
ANNUAL MEAN	27.0		13.1		42.5	
HIGHEST ANNUAL MEAN					13.1	
LOWEST ANNUAL MEAN					13.1	
HIGHEST DAILY MEAN	345	Mar 22	158	May 14	810	Oct 21 1989
LOWEST DAILY MEAN	4.5	Sep 13	3.0	Aug 19	3.0	Aug 19 2002
ANNUAL SEVEN-DAY MINIMUM	4.8	Sep 7	3.6	Aug 13	3.6	Aug 13 2002
MAXIMUM PEAK FLOW			203	May 14	830	Sep 17 1999
MAXIMUM PEAK STAGE			5.40	May 14	10.00	Sep 17 1999
INSTANTANEOUS LOW FLOW			a2.8	Aug 19	2.8	Aug 19 2002
ANNUAL RUNOFF (CFSM)	1.55		0.75		1.86	
ANNUAL RUNOFF (INCHES)	21.09		10.23		25.24	
10 PERCENT EXCEEDS	62		25		61	
50 PERCENT EXCEEDS	14		7.8		23	
90 PERCENT EXCEEDS	5.4		4.9		7.9	

a Also occurred Aug. 20.



## QUINNIPIAC RIVER BASIN

## 01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT

LOCATION.--Lat 41°31'45", long 72°51'50", New Haven County, Hydrologic Unit 01100004, at bridge on Cheshire St., 3 mi west of Meriden, and 1.7 mi upstream from Hanover Pond.

DRAINAGE AREA.--69.6 mi<sup>2</sup>.

PERIOD of RECORD.--Water year 1974 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 10...	1230	46	384	7.6	20.0	11.5	1.2	9.7	88	420	76	120	39.4	
DEC 06...	1330	39	402	7.7	19.5	10.0	1.3	10.1	90	967	208	130	41.3	
FEB 04...	1310	49	396	7.7	8.0	3.5	2.8	13.1	100	8500k	2020k	110	35.7	
APR 03...	1400	93	320	7.8	22.0	12.0	2.0	12.0	113	8500k	400	93	29.6	
JUN 18...	1300	122	271	7.5	21.0	18.0	5.0	8.6	91	303k	212	80	25.3	
JUL 16...	1350	15	412	7.5	31.0	22.0	3.1	6.4	73	580	108	130	41.3	
AUG 14...	1310	21	436	7.6	35.5	26.0	1.8	8.7	107	84k	100	130	42.3	
SEP 12...	1330	24	427	7.2	21.0	17.5	1.8	8.4	88	236	192	130	40.8	
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 10...	5.84	26.1	3.90	0	93	77	21.3	45.9	.2	14.3	234	228	.050	
DEC 06...	6.01	26.1	4.19	0	110	91	19.6	47.1	.2	12.4	256	256	.035	
FEB 04...	5.45	29.5	3.65	0	93	77	17.9	48.5	.1	12.9	228	240	.085	
APR 03...	4.55	21.9	2.44	0	71	58	15.9	37.6	.2	9.70	181	195	.024	
JUN 18...	3.97	17.8	2.68	0	68	56	11.9	30.6	E.1n	11.4	165	179	.020	
JUL 16...	6.01	27.5	4.60	0	98	80	17.9	45.8	.2	13.9	243	268	.106	
AUG 14...	6.11	29.8	5.45	0	104	85	20.3	47.5	.25	14.7	265	275	.012	
SEP 12...	5.88	28.2	5.10	0	98	80	23.3	46.6	.3	14.6	270	274	E.007	
		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 10...	5.56	E.03	--	.39	.38	6.0	.67	.66	.62	4	<.05	107	<.06	
DEC 06...	6.05	<.04	--	.44	.38	6.5	.73	.75	.71	3	.09	105	<.06	
FEB 04...	4.61	.57	.47	1.0	.92	5.7	.68	.62	.59	6	.08	92	<.06	
APR 03...	3.18	<.04	--	.37	.29	3.6	.35	.35	.33	10	.31	83	<.06	
JUN 18...	2.41	E.04	--	.40	.34	2.8	.30	.23	.23	10	.11	77	<.06	
JUL 16...	6.99	E.03	--	.72	.46	7.7	.89	.92	.90	5	.12	112	<.06	
AUG 14...	7.19	E.03	--	.49	.44	7.7	.88	.91	.90	5	.12	112	<.06	
SEP 12...	7.07	<.04	--	.55	.43	7.6	.91	.90	.92	5	.10	110	<.06	



## 01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 10...	.18	<.8	.19	3.6	58	.15	52.7	.4	.10	<1	13	.26	3.4
DEC 06...	.08	E.7	.26	3.4	51	.13	28.2	.4	.67	<1	13	.22	3.8
FEB 04...	.13	E.6	.17	2.5	76	.13	316	.4	.85	<1	14	.28	3.8
APR 03...	.08	E.5	.16	2.6	120	.13	121	.5	1.12	<1	10	.25	4.2
JUN 18...	.08	<.8	.12	2.6	166	.21	54.8	.4	1.21	<1	7	.16	5.0
JUL 16...	.13	<.8	.21	4.8	61	.15	53.3	1.0	1.40	<1	15	.27	4.3
AUG 14...	.15	E.4	.21	4.6	26	E.07	71.5	1.0	1.54	<1	15	.33	3.9
SEP 12...	.14	<.8	.21	4.2	25	.11	94.8	2.0	3.04	<1	14	.31	4.3

Value qualifier codes used in this report:  
k -- Counts outside acceptable range  
n -- Below the NDV

## QUINNIPIAC RIVER BASIN

## 01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT

**LOCATION.**--Lat 41°26'58", long 72°50'29", New Haven County, Hydrologic Unit 01100004, on right bank on Wilbur Cross Highway, 0.8 mi downstream from bridge on Quinnipiac St. in Wallingford, and 2 mi upstream from Wharton Brook.

**DRAINAGE AREA.**--115 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--October 1930 to current year.

**REVISED RECORDS.**--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder, crest-stage gage, and timber control. Datum of gage is 19.24 ft above sea level. Prior to Jan. 27, 1965, at datum 1.00 ft higher. Satellite telemetry at station.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by Wolcott Reservoir, Broad Brook Reservoir, and by mills upstream. Diversion from Wolcott Reservoir for municipal supply of New Britain and diversion into the basin from Merimere and Elmere Reservoirs for municipal supply of Meriden.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 900 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 14	0030	*1,180	*6.84	No other peak greater than base discharge.			

Minimum discharge, 37 ft<sup>3</sup>/s, Aug. 28, gage height, 1.34 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	52	56	60	81	71	177	258	197	74	48	65
2	132	54	54	58	103	66	153	200	152	70	88	161
3	91	61	51	57	84	461	142	209	116	69	154	177
4	81	65	50	57	73	349	184	176	105	64	91	343
5	75	61	53	58	69	171	155	147	125	61	60	174
6	74	56	51	63	64	129	137	135	161	57	53	97
7	71	54	51	106	63	118	127	125	556	56	49	76
8	66	55	52	83	63	109	122	121	430	56	46	67
9	64	55	70	73	62	103	121	115	204	63	46	63
10	62	54	75	69	64	131	127	114	155	90	44	59
11	60	54	65	76	173	122	120	106	133	63	43	57
12	61	53	61	81	127	104	114	117	126	55	43	51
13	61	51	60	92	91	100	113	396	122	51	42	52
14	59	52	62	89	77	99	114	863	132	51	41	51
15	88	53	78	78	71	100	155	444	159	51	41	77
16	79	53	66	75	71	104	148	239	184	51	41	183
17	67	53	59	73	80	105	122	189	256	49	42	127
18	61	52	141	73	83	110	111	535	153	48	42	79
19	57	52	135	70	74	121	106	518	123	55	40	64
20	58	55	94	69	70	152	104	289	118	75	50	59
21	58	57	78	71	106	217	100	217	109	58	52	56
22	57	56	71	72	96	167	106	188	101	51	45	54
23	57	53	67	74	82	134	130	171	95	77	42	67
24	56	53	139	91	74	120	112	159	92	135	42	57
25	57	57	118	99	71	119	119	145	86	75	43	52
26	55	95	87	89	70	127	171	137	85	57	43	59
27	54	78	78	80	74	508	132	134	84	52	41	194
28	53	62	71	76	77	320	201	151	91	53	40	165
29	53	55	67	74	---	197	327	146	79	55	209	102
30	52	54	65	70	---	176	232	131	76	58	195	76
31	51	---	62	70	---	153	---	135	---	51	93	---
TOTAL	2161	1715	2287	2326	2293	5063	4282	7010	4605	1931	1949	2964
MEAN	69.7	57.2	73.8	75.0	81.9	163	143	226	154	62.3	62.9	98.8
MAX	191	95	141	106	173	508	327	863	556	135	209	343
MIN	51	51	50	57	62	66	100	106	76	48	40	51

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002, BY WATER YEAR (WY)

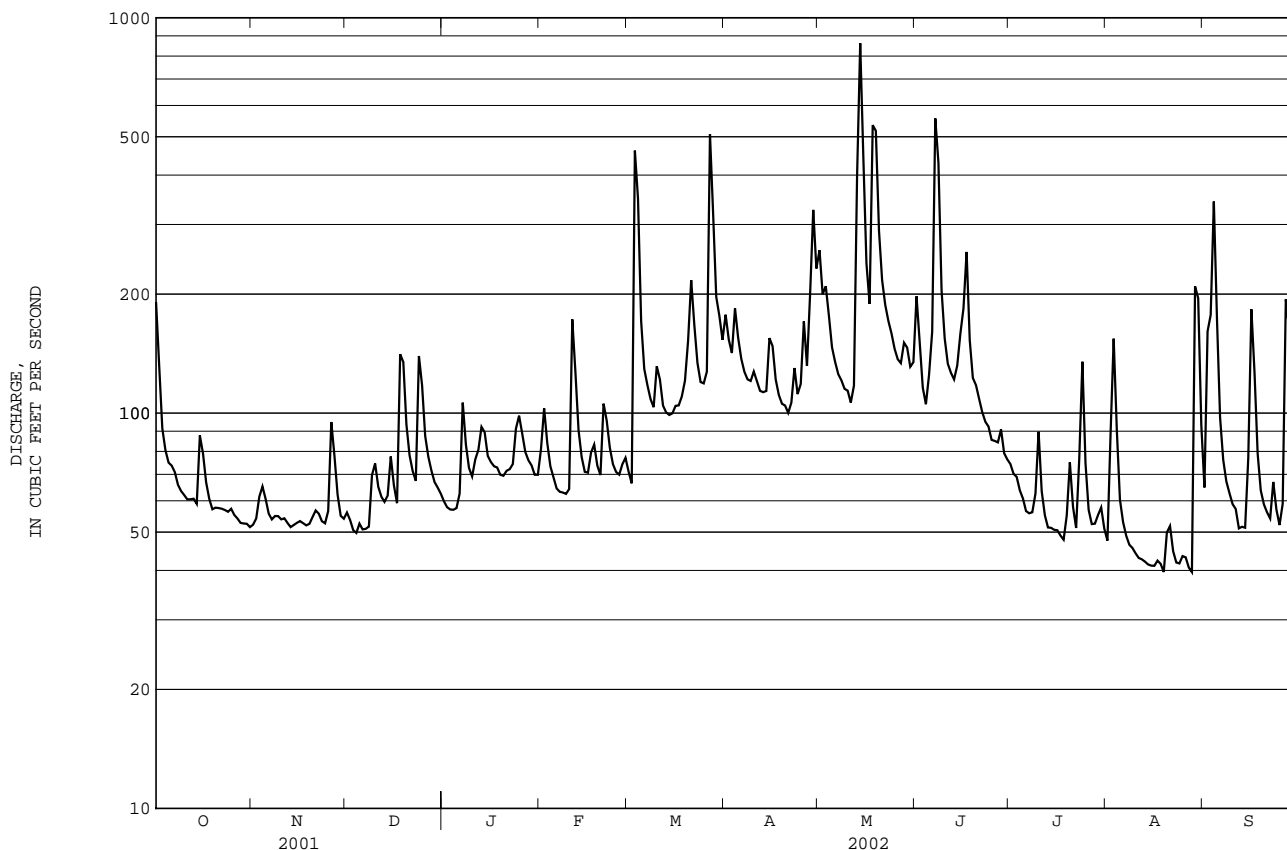
	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	132	186	228	257	270	383	355	247	187	117	109	113	554	658	657	890	611	792	1169	756	920	357	411	563	1956	1956	1997	1979	1970	1953	1983	1989	1982	1972	1955	1938	45.5	47.6	57.9	52.0	81.9	163	107	88.1	61.4	37.5	27.1	41.7	1931	1966	1966	1966	2002	2002	1966	1941	1957	1966	1966	1966	1986											

QUINNIPIAC RIVER BASIN

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01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1931 - 2002		
ANNUAL TOTAL	70325			38586			215		
ANNUAL MEAN	193			106			357		
HIGHEST ANNUAL MEAN							1984		
LOWEST ANNUAL MEAN							84.6		
HIGHEST DAILY MEAN	2090	Mar 22		863	May 14		7210	Jun 6	1982
LOWEST DAILY MEAN	50	Dec 4		40	Aug 19		9.0	Nov 2	1930
ANNUAL SEVEN-DAY MINIMUM	52	Dec 2		41	Aug 13		16	Aug 28	1966
MAXIMUM PEAK FLOW				1180	May 14		8200	Jun 6	1982
MAXIMUM PEAK STAGE				6.84	May 14		14.02	Jun 6	1982
INSTANTANEOUS LOW FLOW				37	Aug 28		8.0	Nov 2	1930
10 PERCENT EXCEEDS	426			177			419		
50 PERCENT EXCEEDS	119			76			149		
90 PERCENT EXCEEDS	56			51			60		



## QUINNIPIAC RIVER BASIN

## 01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1953-54, 1957, 1968 to current year.

PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1969 to December 1970.

WATER TEMPERATURES: November 1969 to December 1970.

EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 530 microsiemens July 16, 1970; minimum recorded, 47 microsiemens July 4, 1970.

WATER TEMPERATURES: Maximum, 31.0°C July 28, 1970; minimum, 0.0°C on many days during winter periods.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	FECAL COLIFORM, MFC MF, WATER (COL/100 ML) (31616)	ENTEROCOCCI, MEI MF, WATER (COL/100 ML) (90909)	HARDNESS, TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	
OCT 10...	1025	59	386	7.7	18.5	12.5	2.7	9.9	92	535k	60	120	37.0	
DEC 06...	1030	49	433	7.6	18.5	10.5	3.7	10.1	91	13300k	12200k	130	39.5	
FEB 04...	1110	72	455	7.6	6.0	4.0	4.8	12.9	99	>30000k	5700	120	36.6	
APR 03...	1140	137	356	7.5	14.5	12.0	3.6	10.4	96	3900	420	100	31.0	
JUN 18...	1045	156	255	7.5	24.0	18.0	7.1	8.7	92	820	1080	75	23.2	
JUL 16...	1000	49	434	7.5	27.5	22.5	2.6	7.2	84	390	74	130	39.1	
AUG 14...	1030	40	436	7.5	33.0	25.0	3.2	7.4	89	156	39	130	39.1	
SEP 12...	1015	50	393	7.7	17.0	18.0	3.4	8.2	87	140	112	120	35.7	
		MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CARBONATE WATER FIELD (MG/L AS CO3) (00452)	BICARBONATE WATER FIELD (MG/L AS HCO3) (00453)	ALKALINITY WAT TOT IT (MG/L AS CaCO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 10...	6.31	29.1	4.09	0	101	84	20.4	48.0	.2	11.7	228	222	.018	
DEC 06...	6.85	29.4	4.97	0	122	101	21.3	50.6	.3	11.2	252	254	.137	
FEB 04...	6.48	38.2	3.69	0	99	82	21.8	64.1	.2	10.9	262	264	.184	
APR 03...	5.69	26.1	2.62	0	87	71	17.9	45.2	.2	8.21	191	217	.144	
JUN 18...	4.14	17.5	2.08	0	67	55	11.9	28.7	.1	9.92	155	165	.031	
JUL 16...	6.96	31.6	4.37	0	108	84	22.6	56.7	.3	12.3	258	264	.027	
AUG 14...	6.83	30.6	5.59	0	105	86	23.3	52.5	.28	11.0	249	262	.021	
SEP 12...	6.32	28.1	4.12	0	99	81	23.0	45.5	.3	11.5	245	235	.089	
		NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTIMONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)
OCT 10...	4.16	E.03	--	.54	.45	4.7	.28	.24	.20	5	.15	94	<.06	
DEC 06...	4.30	1.63	.87	2.5	2.3	6.8	.97	.89	.84	4	.21	98	<.06	
FEB 04...	3.38	.13	.62	.74	.53	4.1	.51	.40	.35	6	.29	91	<.06	
APR 03...	2.29	.71	.62	1.3	1.1	3.6	.26	.182	.15	7	.36	87	<.06	
JUN 18...	1.78	.07	.54	.61	.39	2.4	.21	.142	.11	10	.24	71	<.06	
JUL 16...	4.30	E.02	--	.80	.59	5.1	.33	.29	.23	5	.34	102	<.06	
AUG 14...	4.62	<.04	--	.49	.44	5.1	.27	.23	.21	5	.30	97	<.06	
SEP 12...	3.72	E.03	--	.85	.45	4.6	.25	.176	.15	6	.33	94	<.06	

## QUINNIPIAC RIVER BASIN

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## 01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 10...	.18	<.8	.54	3.9	31	.16	75.1	5.3	3.35	<1	8	.25	4.0
DEC 06...	.08	E.6	.50	3.8	60	.16	73.1	7.2	3.18	<1	9	.22	6.4
FEB 04...	.13	E.5	.63	3.7	52	.26	143	4.9	8.14	<1	16	.24	5.8
APR 03...	.07	<.8	.28	3.0	87	.20	136	4.2	2.60	<1	7	.26	5.4
JUN 18...	.05	<.8	.28	3.1	138	.35	59.9	2.5	2.12	<1	5	.13	6.0
JUL 16...	.10	<.8	.58	4.7	42	.14	54.6	6.6	6.49	<1	8	.26	5.1
AUG 14...	.16	<.8	2.11	5.1	44	.15	74.3	12.8	5.21	<1	6	.30	4.4
SEP 12...	.10	<1.6	.69	4.1	22	.09	81.6	10.5	5.65	<1	6	.27	6.4

Value qualifier codes used in this report:

k -- Counts outside acceptable range

## QUINNIPIAC RIVER BASIN

## 01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT

**LOCATION.**--Lat 41°23'24", long 72°52'19", New Haven County, Hydrologic Unit 01100004, at bridge on U.S. Rt. 5, at North Haven, 2.3 mi downstream from Wharton Brook and 0.9 mi upstream from Watermans Brook.

**DRAINAGE AREA.**--128 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water year 1974 to current year.

**REMARKS.**--Stream tidal affected.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD	TEMPER- ATURE AIR	TEMPER- ATURE WATER	TUR- BID- ITY	OXYGEN, DIS- SOLVED	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML)	ENTERO- COCCI, MEI MF, WATER (COL/ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	
		(US/CM) (00095)	(00400)	(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(MG/L) (00300)	(00301)	(31616)	(90909)	(00900)	(00915)	(00925)	
OCT 10...	0840	416	7.6	13.0	12.0	2.8	8.6	78	10600k	454k	120	37.1	6.76	
DEC 06...	0845	470	7.4	14.0	10.5	3.3	7.8	70	4700	6200	130	40.5	7.31	
FEB 04...	0950	463	7.4	5.0	3.5	3.9	11.2	85	>25000k	3300	120	36.8	6.59	
APR 03...	1010	352	7.3	14.5	11.0	3.6	9.3	85	1370k	192	100	31.1	5.55	
JUN 18...	0900	260	7.4	23.0	17.5	18	7.2	75	1530k	2400	75	23.3	4.12	
JUL 16...	0730	475	7.5	24.5	22.0	5.0	4.8	55	600	116	130	39.1	7.39	
AUG 14...	0830	484	7.5	29.5	24.5	5.4	5.4	64	158k	80	130	39.2	7.27	
SEP 12...	0825	440	7.6	15.0	18.5	4.2	6.5	70	148	180	120	37.5	6.98	
Date		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
OCT 10...	34.7	4.22	0	103	85	27.3	50.6	.3	12.1	252	248	.065	5.07	
DEC 06...	38.3	5.24	0	126	104	25.3	53.0	.4	11.0	288	284	.151	5.91	
FEB 04...	39.5	3.86	0	96	80	20.9	63.3	.2	10.7	268	272	.129	4.48	
APR 03...	26.1	2.82	0	81	66	18.1	44.9	.2	8.63	198	209	.082	2.62	
JUN 18...	18.9	2.26	0	67	55	13.3	28.9	.1	9.72	159	181	.038	2.16	
JUL 16...	40.7	5.07	0	111	91	25.1	60.6	.3	12.5	285	307	.047	4.98	
AUG 14...	42.4	6.38	0	128	98	26.0	58.6	.35	11.0	286	290	.042	5.30	
SEP 12...	36.4	4.93	0	105	86	26.5	50.0	.3	12.1	271	270	.042	5.07	
Date		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
OCT 10...	.20	1.8	2.0	1.9	7.0	.57	.51	.46	4	.17	92	<.06	.20	
DEC 06...	.42	4.9	5.4	5.7	11	.97	--	.84	2	.25	97	<.06	.12	
FEB 04...	.24	1.8	2.0	1.8	6.5	.72	.59	.56	4	.20	88	<.06	.10	
APR 03...	.15	1.1	1.2	1.0	3.8	.34	.24	.24	7	.35	84	<.06	.07	
JUN 18...	.08	.97	1.0	.84	3.2	.35	.21	.20	8	.30	68	<.06	.07	
JUL 16...	.09	3.8	3.8	3.5	8.8	.80	.69	.63	5	.35	106	<.06	.12	
AUG 14...	E.03	--	4.8	4.1	10	1.09	.99	.98	5	.35	101	<.06	.17	
SEP 12...	<.04	--	3.0	2.5	8.0	.65	.54	.54	5	.33	97	<.06	.13	

## QUINNIPIAC RIVER BASIN

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## 01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT												
10...	E.5	.79	5.0	56	.20	88.9	10.4	5.56	<1	10	.22	6.4
DEC												
06...	E.6	.69	4.9	72	.24	99.7	12.8	6.31	<1	12	.19	9.6
FEB												
04...	<.8	.38	3.7	63	.25	133	5.2	4.45	<1	12	.27	6.4
APR												
03...	<.8	.28	2.9	122	.23	131	3.4	2.85	<1	7	.24	5.7
JUN												
18...	<.8	.34	3.5	126	.38	48.8	3.5	2.83	<1	5	.11	7.3
JUL												
16...	<.8	.65	5.0	46	.17	110	10.0	8.01	<1	8	.22	8.8
AUG												
14...	<.8	2.48	5.4	44	.20	81.6	18.6	7.77	<1	8	.26	5.7
SEP												
12...	<1.6	.88	4.8	34	.14	90.4	24.3	8.35	<1	8	.26	8.8

Value qualifier codes used in this report:  
 k -- Counts outside acceptable range

## QUINNIPIAC RIVER BASIN

## RESERVOIRS IN QUINNIPIAC RIVER BASIN

**01195800 WOLCOTT RESERVOIR.**--Lat 41°36'35", long 72°05'08", New Haven County, Conn., Hydrologic Unit 01100004, on Roaring Brook in Eightmile River basin, 2.1 mi northeast of Wolcott. Drainage area, 2.45 mi<sup>2</sup>. Completed in 1904 for storage of water for municipal supply of city of New Britain. Usable capacity, 22,700,000 ft<sup>3</sup>. Records available, September 1960 to current year. Records furnished by Board of Water Commissioners, New Britain, Conn.

**01196225 BROAD BROOK RESERVOIR.**--Lat 41°31'20", long 72°51'34", New Haven County, Conn., Hydrologic Unit 01100004, on Broad Brook in Quinnipiac River basin, 3 mi southwest of Meriden. Drainage area, 4.85 mi<sup>2</sup>. Completed in 1907 for storage of water for municipal supply of city of Meriden. Usable capacity, 134,000,000 ft<sup>3</sup>. Records available, September 1970 to current year. Records furnished by Water Department, city of Meriden, Conn.



## Science Challenge

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What is the highest waterfall in the United States?

Find more earth science information on our website at <http://www.usgs.gov>

The highest waterfall in the United States is Yosemite Falls, California,  
at 2,425 feet.

## MILL RIVER BASIN

## 01196620 MILL RIVER NEAR HAMDEN, CT

**LOCATION.**--Lat 41°25'15", long 72°54'12", New Haven County, Hydrologic Unit 01100004, 150 ft downstream from bridge on Mount Carmel Ave., 0.4 mi downstream from Eatons Brook, and 2.5 mi north of Hamden.

**DRAINAGE AREA.**--24.5 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1968 to September 1970, October 1978 to current year.

**GAGE.**--Water-stage recorder and broad-crested concrete weir. Datum of gage is 82.57 ft above sea level. October 1, 1968, to September 30, 1970, 150 ft upstream at datum 0.73 ft higher.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 400 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
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No peak greater than base discharge.

Minimum discharge, 1.3 ft<sup>3</sup>/s, Aug. 20, gage height, 1.03 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	4.0	5.0	e4.4	9.4	6.3	42	55	42	12	3.9	5.2
2	14	4.4	4.3	e4.1	12	6.0	32	50	27	10	7.8	35
3	8.1	5.2	4.0	e3.8	8.7	161	30	67	23	9.7	20	26
4	6.6	5.6	3.9	e3.6	7.3	69	37	42	21	9.1	7.6	32
5	5.7	4.2	3.8	e3.5	6.4	33	29	35	30	8.5	5.4	19
6	5.5	3.8	3.7	e3.5	5.9	23	26	31	34	8.0	4.5	8.7
7	5.1	3.6	3.8	9.2	e5.5	19	23	29	160	7.8	4.0	6.0
8	4.4	3.5	4.0	8.4	e5.3	16	22	27	68	7.7	3.7	5.0
9	4.4	3.6	8.2	6.3	e5.1	15	21	25	41	8.1	3.7	4.5
10	4.4	3.7	8.0	6.6	5.9	21	22	26	32	13	3.3	4.0
11	4.4	4.0	6.1	7.8	27	16	19	22	27	8.9	3.0	3.5
12	4.1	3.7	5.4	8.7	16	14	18	27	28	8.0	2.8	2.6
13	4.0	3.7	4.9	9.8	11	14	19	124	32	7.4	2.5	2.6
14	4.1	4.0	5.3	9.0	9.2	14	19	248	32	6.8	2.3	2.7
15	12	4.2	10	7.6	7.2	13	33	86	47	6.4	2.1	5.9
16	6.8	4.4	7.2	6.9	6.8	13	24	58	38	6.1	2.0	19
17	4.6	4.7	5.4	6.5	8.7	12	20	48	51	5.4	2.2	9.1
18	4.1	5.3	22	e6.0	9.4	13	17	166	30	4.6	2.1	5.0
19	4.0	3.4	16	e5.6	6.8	17	16	106	25	4.8	1.9	4.0
20	4.4	3.2	9.5	e5.4	6.9	27	16	68	24	14	3.3	3.5
21	4.4	3.8	7.1	e5.2	12	52	17	56	21	8.2	3.6	3.2
22	4.3	3.9	5.9	e5.1	9.3	37	20	49	19	6.4	2.4	2.9
23	4.0	4.0	5.6	e5.0	7.5	25	26	43	18	11	2.1	4.5
24	3.9	4.0	19	12	6.7	20	20	40	16	23	2.3	3.2
25	3.7	4.8	13	15	6.5	18	23	36	15	9.2	3.0	2.7
26	3.2	12	9.2	10	6.2	20	39	34	14	6.5	2.4	3.6
27	3.3	6.8	7.4	8.3	6.8	139	25	33	14	6.2	2.0	30
28	3.4	5.1	6.3	7.5	7.5	63	54	39	17	6.2	1.5	19
29	3.8	4.5	e5.8	7.1	---	41	90	36	14	6.0	27	8.4
30	4.0	4.7	e5.2	6.8	---	38	49	31	13	5.0	26	5.9
31	4.0	---	e4.8	6.9	---	33	---	30	---	4.2	8.1	---
TOTAL	179.7	135.8	229.8	215.6	243.0	1008.3	848	1767	973	258.2	168.5	286.7
MEAN	5.80	4.53	7.41	6.95	8.68	32.5	28.3	57.0	32.4	8.33	5.44	9.56
MAX	27	12	22	15	27	161	90	248	160	23	27	35
MIN	3.2	3.2	3.7	3.5	5.1	6.0	16	22	13	4.2	1.5	2.6
CFSM	0.24	0.18	0.30	0.28	0.35	1.33	1.15	2.33	1.32	0.34	0.22	0.39
IN.	0.27	0.21	0.35	0.33	0.37	1.53	1.29	2.68	1.48	0.39	0.26	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2002, BY WATER YEAR (WY)

	MEAN	23.0	38.0	53.9	58.8	61.0	87.5	90.3	58.9	52.5	18.8	18.3	13.6
MAX	123	99.1	192	258	108	183	317	169	411	58.2	70.0	38.6	
(WY)	1990	1990	1984	1979	1984	1983	1983	1989	1982	1984	1989	1999	
MIN	4.64	4.53	7.41	6.95	8.68	32.5	20.9	18.9	8.92	5.04	1.84	2.29	
(WY)	1998	2002	2002	2002	2002	2002	1985	1986	1999	1995	1999	1995	

e Estimated.

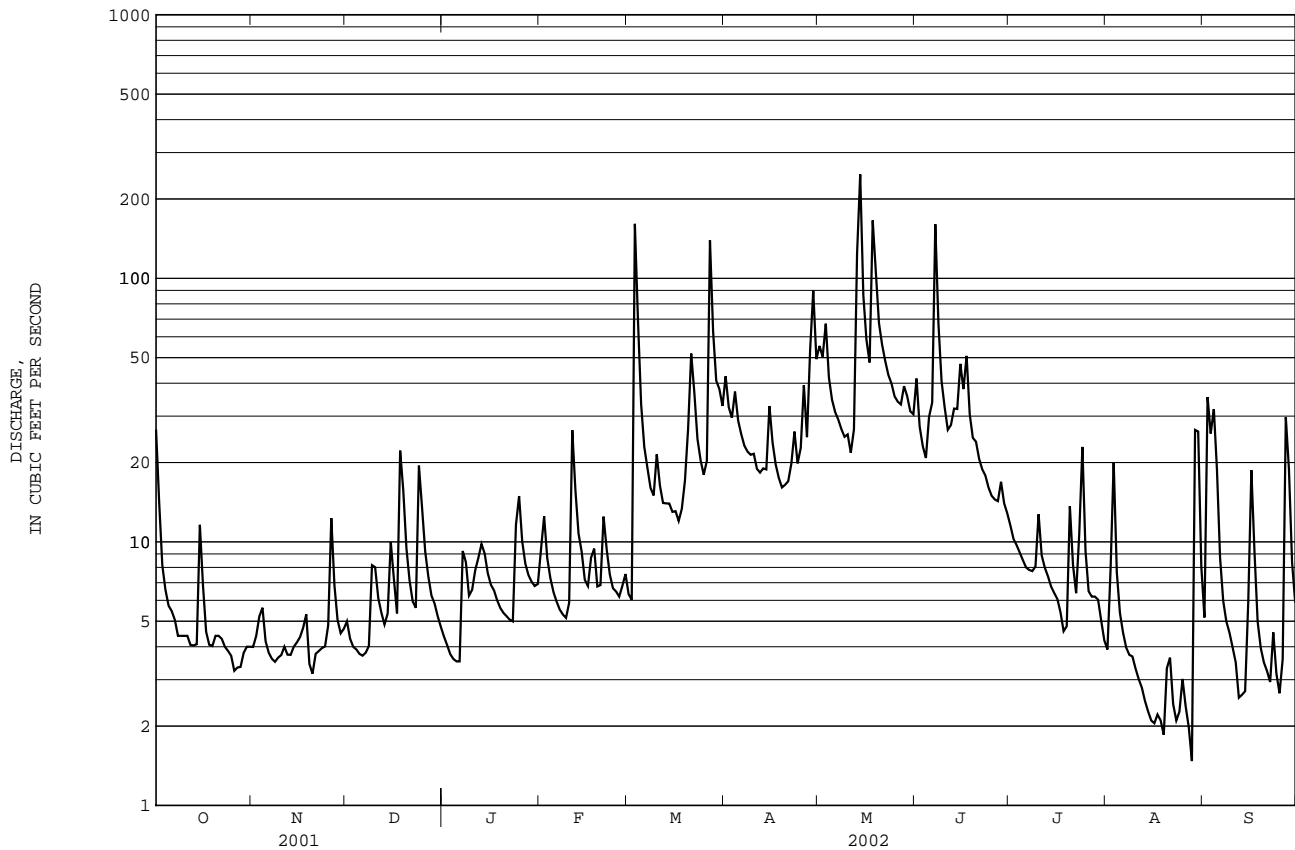
## 01196620 MILL RIVER NEAR HAMDEN, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1969 - 2002		
ANNUAL TOTAL	14854.6			6313.6			47.8		
ANNUAL MEAN	40.7			17.3			85.1		
HIGHEST ANNUAL MEAN							17.3		
LOWEST ANNUAL MEAN							17.3		
HIGHEST DAILY MEAN	708	Mar 22		248	May 14		4300	Jun 6	1982
LOWEST DAILY MEAN	3.2	Oct 26		1.5	Aug 28		0.15	Sep 12	1995
ANNUAL SEVEN-DAY MINIMUM	3.6	Oct 23		2.2	Aug 13		0.21	Sep 6	1995
MAXIMUM PEAK FLOW				383	May 14		a5580	Jun 6	1982
MAXIMUM PEAK STAGE				2.63	May 14		b9.53	Jun 6	1982
INSTANTANEOUS LOW FLOW				1.3	Aug 20		c0.15	Sep 12	1995
ANNUAL RUNOFF (CFSM)	1.66			0.71			1.95		
ANNUAL RUNOFF (INCHES)	22.55			9.59			26.49		
10 PERCENT EXCEEDS	100			37			97		
50 PERCENT EXCEEDS	19			8.0			27		
90 PERCENT EXCEEDS	4.2			3.6			6.3		

a From contracted opening measurement 0.7 mi downstream.

b From floodmarks.

c Also occurred on Sep. 13, 1995.



## HOUSATONIC RIVER BASIN

## 01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA

**LOCATION.**--Lat 42°04'29", long 73°20'02", Berkshire County, Hydrologic Unit 01100005, 2.5 mi downstream from Soda Creek, 3.1 mi upstream from Konkapot River.

**DRAINAGE AREA.**--465 mi<sup>2</sup>.

**PERIOD of RECORD.**--October 1991 to current year.

**PERIOD of DAILY RECORD.**--

SUSPENDED-SEDIMENT CONCENTRATION: March 1994 to September 1995.

SUSPENDED-SEDIMENT DISCHARGE: March 1994 to September 1995.

**EXTREMES FOR PERIOD of DAILY RECORD.**--

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 94 mg/L, March 9, 1995, minimum daily mean, 1 mg/L on several days.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 962 tons, April 8, 1994, minimum daily 0.41 tons, Aug. 25, 1995.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
Date	Time													
NOV 13...	1030	210	356	7.8	5.0	4.0	1.8	11.9	92	7k	6k	130	33.3	
JAN 17...	1030	243	457	7.8	2.0	1.5	2.4	12.5	92	35	840	150	37.3	
MAR 05...	1130	111	317	7.7	-1.5	3.0	4.1	13.1	98	196	474k	110	28.2	
MAY 28...	1015	751	313	7.8	22.5	17.0	3.7	8.4	89	60	116	120	31.1	
JUN 24...	1115	536	323	7.4	27.0	23.0	5.7	7.1	84	96	24k	130	32.8	
JUL 18...	0935	137	428	8.3	30.0	24.0	2.4	9.2	112	37	51	150	37.2	
AUG 15...	1015	106	454	7.9	30.5	26.0	3.2	6.5	82	65	21	160	39.1	
SEP 18...	0945	219	448	8.0	20.0	12.0	3.8	8.1	89	580	440	150	36.9	
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
Date														
NOV 13...	12.1	22.3	2.04	0	142	118	15.2	33.1	<.1	1.35	192	200	E.006	
JAN 17...	13.2	33.4	2.06	0	150	125	16.3	54.2	E.1	3.94	250	250	.009	
MAR 05...	9.30	18.5	1.43	0	111	92	12.1	31.4	<.1	2.38	170	180	<.008	
MAY 28...	10.2	17.0	.99	0	123	101	10.5	28.4	E.1n	2.06	171	177	E.004	
JUN 24...	11.1	18.5	1.16	0	134	110	10.2	29.1	<.1	2.97	183	200	.016	
JUL 18...	14.0	29.1	2.02	0	170	139	15.2	42.3	<.10	1.73	232	240	.020	
AUG 15...	14.7	29.4	2.65	0	172	141	16.1	44.9	<.10	2.35	246	243	E.004	
SEP 18...	14.1	30.4	2.97	0	166	136	20.6	41.0	<.1	1.61	246	248	.008	
		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
Date														
NOV 13...	.88	.05	.57	.62	.59	1.5	.047	.038	.02	5	.12	13	<.06	
JAN 17...	1.05	.11	.39	.50	.54	1.6	.056	.043	.04	6	.08	13	<.06	
MAR 05...	.53	E.03	--	.31	.26	.84	.054	.027	.02	10	.15	10	<.06	
MAY 28...	.35	E.02	--	.32	.26	.67	.051	.015	<.02	11	.21	10	<.06	
JUN 24...	.56	.06	.39	.45	.32	1.0	.062	.029	.02	10	.17	13	<.06	
JUL 18...	.56	<.04	--	.70	.31	1.3	.059	.011	<.02	12	.18	14	<.06	
AUG 15...	.45	.05	.57	.62	.50	1.1	.054	.027	.28	10	.09	17	<.06	
SEP 18...	1.01	.12	.61	.72	.57	1.7	.065	.045	.03	9	.19	16	<.06	

## HOUSATONIC RIVER BASIN

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## 01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV													
13...	E.02	<.8	.13	1.3	124	.14	46.3	.7	.38	<1	2	.42	4.2
JAN													
17...	E.03	<.8	.16	1.2	73	E.08	70.5	.9	1.11	<1	3	.46	3.2
MAR													
05...	<.04	E.4	.11	1.1	77	.16	28.8	.5	.49	<1	1	.33	3.9
MAY													
28...	<.04	<.8	.17	3.1	62	.17	27.0	E.1	.37	<1	1	.33	4.2
JUN													
24...	<.04	<.8	.14	1.1	61	.10	21.5	.6	.78	<1	<1	.34	4.6
JUL													
18...	E.02	<.8	.23	1.7	43	E.06	44.0	1.0	.82	<1	<1	.56	4.8
AUG													
15...	E.03	<.8	.22	1.7	44	.09	43.7	1.5	.47	<1	<1	.51	4.0
SEP													
18...	E.03	<.8	.19	1.8	27	E.07	21.6	1.3	1.83	<1	2	.54	4.9

Value qualifier codes used in this report:  
k -- Counts outside acceptable range  
n -- Below the NDV

## HOUSATONIC RIVER BASIN

## 01198990 FALLS VILLAGE RESERVOIR AT FALLS VILLAGE, CT

**LOCATION.**--Lat 41°57'45", long 73°22'18", Litchfield County, Hydrologic Unit 01100005, on Housatonic River at Great Falls, 0.4 mi upstream from hydroelectric plant of Connecticut Light and Power Company and gaging station at Falls Village, 0.9 mi downstream from Hollenbeck River and 2.0 mi upstream from Salmon Creek.

**DRAINAGE AREA.**--633 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water years 1921, 1956 to current year.

**PERIOD of DAILY RECORD.**--

WATER TEMPERATURES: October 1955 to current year.

**COOPERATION.**--Records were furnished by the Connecticut Light and Power Company.

**EXTREMES FOR PERIOD of DAILY RECORD.**--

WATER TEMPERATURES: Maximum daily, 28.5°C July 5, Aug. 18, 19, 2002; minimum daily, 0.0°C on many days during winter periods.

**EXTREMES FOR CURRENT YEAR.**--

WATER TEMPERATURES: Maximum daily, 28.5°C July 5, Aug. 18, 19; minimum daily, 0.0°C on numerous days during winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	8.0	9.5	0.5	2.0	3.5	9.0	9.0	20.5	25.0	25.5	20.0
2	14.0	8.5	10.0	0.5	2.0	3.0	9.0	9.5	20.5	25.5	26.0	19.5
3	14.0	9.5	9.5	0.5	1.0	3.0	9.0	9.5	19.5	26.5	26.5	19.0
4	15.0	10.0	8.5	0.5	0.5	4.5	8.5	10.0	19.0	28.0	26.5	20.0
5	15.5	10.5	7.5	0.5	0.5	4.0	6.5	11.0	18.0	28.5	26.5	21.0
6	16.5	10.0	7.5	0.5	0.5	3.0	5.5	12.5	18.5	27.5	26.5	21.0
7	16.5	9.0	8.0	0.5	0.5	3.0	5.0	15.0	18.0	25.5	25.0	21.0
8	14.5	8.5	8.0	0.5	0.5	3.5	5.5	16.0	17.0	24.0	24.0	21.5
9	12.5	8.0	7.0	0.5	1.5	5.0	6.0	16.5	18.0	24.0	24.0	21.5
10	11.5	8.0	5.5	0.5	1.5	6.5	9.5	15.0	19.0	24.5	24.0	22.0
11	11.0	7.0	4.5	0.5	2.0	8.0	10.5	15.0	19.5	24.5	24.0	23.5
12	10.0	6.0	4.0	0.5	1.5	5.5	11.0	16.0	21.5	24.0	24.5	21.0
13	13.5	5.0	4.0	0.5	1.0	4.5	11.5	14.0	21.0	24.0	25.5	20.0
14	14.5	4.5	4.0	0.5	0.5	4.5	13.5	10.5	19.5	24.0	26.0	20.5
15	14.5	4.5	4.5	0.5	0.5	5.5	14.5	10.5	18.5	24.0	26.5	21.0
16	14.5	5.0	5.0	0.5	1.0	6.0	15.5	10.5	16.5	24.0	27.0	21.0
17	14.5	5.5	4.0	0.5	2.0	6.5	17.0	13.0	16.0	24.5	28.0	21.0
18	13.5	6.5	3.5	1.0	2.0	5.5	18.5	14.0	17.0	25.5	28.5	20.5
19	12.5	6.5	3.5	1.0	1.5	5.0	20.5	11.5	18.5	26.0	28.5	21.0
20	11.5	6.5	3.5	0.5	2.0	5.0	20.5	11.0	20.0	26.0	28.0	21.0
21	11.0	6.0	3.0	0.5	3.5	4.0	18.0	10.5	20.0	25.5	26.5	21.5
22	11.5	5.5	2.0	0.5	4.5	4.0	15.5	10.5	21.5	25.5	26.0	21.5
23	12.5	5.5	1.0	0.5	4.5	3.5	12.5	12.5	22.0	26.5	25.5	23.0
24	12.5	5.5	1.0	0.5	4.0	3.0	10.5	14.5	23.5	26.5	24.5	22.0
25	13.5	5.5	1.0	0.5	3.5	4.0	11.0	16.0	24.0	24.5	23.5	21.5
26	13.5	6.5	1.0	1.5	4.0	5.0	10.5	17.0	24.0	24.5	23.5	21.0
27	12.5	7.5	0.5	2.0	5.5	5.0	9.0	16.5	24.5	24.0	23.5	19.5
28	11.0	8.5	0.0	2.0	5.0	4.5	10.0	18.0	25.0	23.5	23.0	19.0
29	10.0	9.0	0.5	2.0	---	5.0	10.0	18.5	24.5	23.5	23.0	18.0
30	9.5	8.5	0.5	3.0	---	6.0	8.5	18.5	25.0	24.5	21.0	17.5
31	8.5	---	0.5	3.5	---	7.5	---	20.0	---	25.0	21.0	---
MEAN	12.9	7.2	4.3	0.9	2.1	4.7	11.4	13.6	20.3	25.1	25.2	20.7

## Science Challenge

What are the largest and longest reservoirs in the United States?

Find more earth science information on our website at <http://www.usgs.gov>

Lake Mead, located on the Arizona-Nevada border is the largest reservoir in the United States, with a volume of 29,000,000 acre feet. Lake Powell, in Utah, is the longest reservoir, with a length of 186 miles.

## 01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT

**LOCATION.**--Lat 41°57'26", long 73°22'11", Litchfield County, Hydrologic Unit 01100005, on left bank at hydroelectric plant of Connecticut Light and Power Company at Falls Village, 1.4 mi downstream from Hollenbeck River, and at mile 75.9.

DRAINAGE AREA.--634 mi<sup>2</sup>.

PERIOD of RECORD.--Discharge: July 1912 to current year.

Water-quality records: Water years 1974-80.

REVISED RECORDS.--WSP 781: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 529.06 ft above sea level (levels by Corps of Engineers). Prior to Oct. 26, 1964, at site 0.6 mi downstream at datum 6.72 ft lower.

REMARKS.--No estimated daily discharges. Records good. Low flow completely regulated by power plant of Connecticut Light and Power Company. High flow is regulated by flood-control reservoirs from 20.5 mi<sup>2</sup> in the Blackberry River Basin, but does not affect monthly runoff appreciably.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 3,600 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
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No peak greater than base discharge.

Minimum discharge, 41 ft<sup>3</sup>/s, Sept. 13, 14, 15, gage height, 1.23 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	219	291	582	580	557	1470	1610	1050	455	196	185
2	316	240	315	582	659	531	1530	1580	1060	357	207	245
3	290	296	324	582	646	617	1570	1830	852	386	337	148
4	297	259	322	574	670	992	1580	1640	727	367	340	221
5	179	266	322	290	562	980	1530	1400	744	353	292	178
6	286	252	299	315	380	911	1350	1260	1090	306	246	145
7	377	257	293	316	423	678	1200	1000	2600	295	241	236
8	323	273	273	310	448	665	1040	936	3120	293	147	157
9	291	246	247	293	428	653	971	867	2400	257	147	156
10	239	259	246	311	426	624	999	858	1690	261	147	70
11	232	266	211	330	565	747	1220	816	1350	244	132	57
12	162	257	226	342	788	806	1150	795	1020	227	130	53
13	282	264	229	334	819	692	973	1040	998	300	130	42
14	166	263	243	341	665	643	955	3020	973	199	130	41
15	166	253	349	313	563	559	1240	3370	973	202	130	42
16	259	259	510	289	497	603	1410	2920	1030	194	130	54
17	366	252	407	349	472	682	1390	2230	1460	155	130	160
18	371	241	544	286	476	635	1210	2130	1420	153	130	192
19	368	238	974	281	474	570	1040	2790	1170	153	118	158
20	347	268	1030	289	417	663	972	2600	976	439	118	71
21	324	207	830	269	542	697	852	2140	831	545	117	149
22	305	217	740	291	711	749	850	1720	735	373	117	69
23	298	261	715	299	761	762	791	1530	681	257	117	69
24	298	250	627	321	775	690	789	1290	698	487	118	69
25	281	231	748	392	567	666	788	1180	668	464	117	71
26	262	280	803	484	553	654	866	1020	610	336	117	71
27	238	277	668	463	548	821	987	982	576	309	122	72
28	175	319	458	439	573	1400	1010	934	573	200	122	305
29	210	319	420	453	---	1300	1330	940	483	268	125	305
30	210	293	582	462	---	1240	1510	790	477	245	146	199
31	215	---	582	652	---	1370	---	842	---	237	382	---
TOTAL	8353	7782	14828	11834	15988	24157	34573	48060	33035	9317	5178	3990
MEAN	269	259	478	382	571	779	1152	1550	1101	301	167	133
MAX	377	319	1030	652	819	1400	1580	3370	3120	545	382	305
MIN	162	207	211	269	380	531	788	790	477	153	117	41
CFMSM	0.43	0.41	0.75	0.60	0.90	1.23	1.82	2.45	1.74	0.47	0.26	0.21
IN.	0.49	0.46	0.87	0.69	0.94	1.42	2.03	2.82	1.94	0.55	0.30	

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2002, BY WATER YEAR (WY)

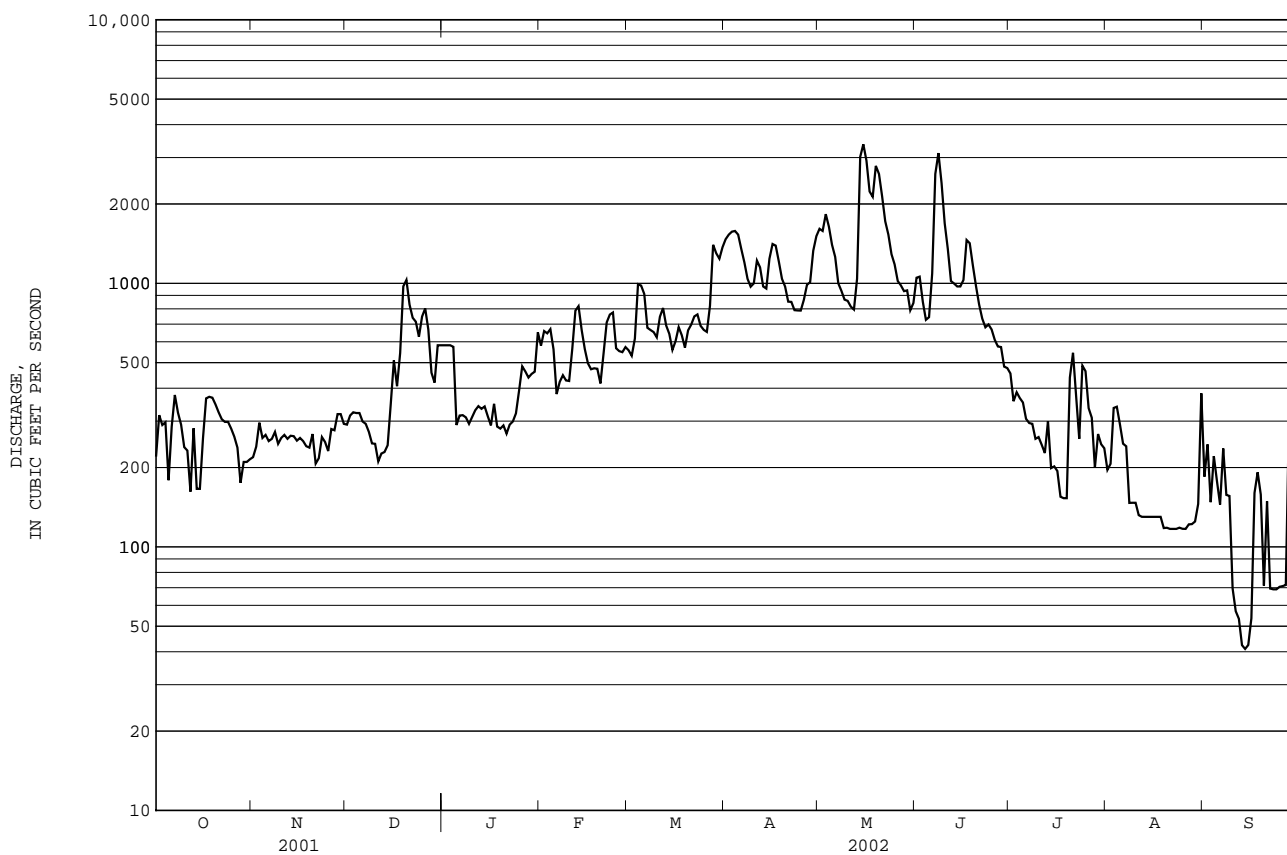
MEAN	614	935	1097	1119	1092	1927	2416	1394	899	579	498	501
MAX	2657	3795	3151	4490	2790	5291	5207	2892	3143	2302	2509	3543
(WY)	1956	1928	1974	1949	1976	1936	1940	1984	1984	1945	1955	1938
MIN	122	117	131	189	267	669	756	541	277	170	157	126
(WY)	1915	1915	1915	1981	1920	1965	1985	1941	1964	1965	1913	1999



## 01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1913 - 2002	
ANNUAL TOTAL	320802			217095			1088	
ANNUAL MEAN	879			595			1782	1928
HIGHEST ANNUAL MEAN							403	1965
LOWEST ANNUAL MEAN								
HIGHEST DAILY MEAN	7370	Apr 12		3370	May 15		23700	Jan 1 1949
LOWEST DAILY MEAN	135	Aug 28		41	Sep 14		24	Oct 15 1914
ANNUAL SEVEN-DAY MINIMUM	137	Aug 30		51	Sep 10		51	Sep 10 2002
MAXIMUM PEAK FLOW				3510	May 15		23900	Jan 1 1949
MAXIMUM PEAK STAGE				5.62	May 15		a19.40	Jan 1 1949
INSTANTANEOUS LOW FLOW				c41	Sep 13		b	
ANNUAL RUNOFF (CFSM)	1.39			0.94			1.72	
ANNUAL RUNOFF (INCHES)	18.82			12.74			23.32	
10 PERCENT EXCEEDS	2160			1270			2400	
50 PERCENT EXCEEDS	550			382			727	
90 PERCENT EXCEEDS	199			147			228	

- a From floodmarks, present site and datum.  
b Practically no flow at times when power plant was shut down.  
c Also occurred Sep. 14, 15.



## 01199050 SALMON CREEK AT LIME ROCK, CT

**LOCATION.**--Lat 41°56'32", long 73°23'29", Litchfield County, Hydrologic Unit 01100005, on left bank 300 ft upstream from bridge on Uptown Salisbury Rd., 0.6 mi north of Lime Rock, and 3.0 mi upstream from mouth.

**DRAINAGE AREA.**--29.4 mi<sup>2</sup>.

PERIOD of RECORD.--October 1961 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 620.37 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good, except those for periods of estimated record, which are fair.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Aug. 19, 1955, reached a stage of about 13.5 ft, from floodmarks, discharge 6,300 ft<sup>3</sup>/s, from rating curve extended above 350 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow.

**EXTREMES FOR CURRENT YEAR.--**Peak discharges greater than base discharge of 250 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 14	1015	*259	*2.42	No other peak greater than base discharge.			

Minimum discharge, 4.0 ft<sup>3</sup>/s, on several days, gage height, 0.69 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	11	9.5	e13	21	18	50	66	66	17	6.0	9.0
2	9.8	11	8.6	e12.5	26	18	46	62	39	15	6.2	8.8
3	8.6	11	8.0	e12	29	32	41	91	31	14	12	7.9
4	8.5	11	8.3	e12	e19	31	49	66	26	13	8.9	9.0
5	8.0	11	8.5	13	e18	25	41	53	28	12	8.4	7.8
6	15	11	7.9	13	e17	23	36	46	84	11	9.0	6.5
7	15	11	7.8	14	e16	22	32	41	204	11	7.8	6.1
8	15	11	7.7	18	e15.5	22	30	37	104	10	7.1	6.0
9	14	10	8.8	16	e15.3	21	29	33	72	10	6.6	5.2
10	14	9.8	8.9	15	16	26	31	32	57	11	6.3	5.3
11	14	9.2	9.1	15	27	24	27	29	46	9.1	5.9	5.6
12	14	8.8	9.0	17	e18	21	25	28	40	8.7	5.6	5.3
13	14	8.5	12	16	e17	20	25	93	40	8.3	5.0	5.3
14	14	8.3	13	15	e16.5	20	30	231	42	7.9	4.6	5.2
15	21	8.3	16	14	e16	19	44	134	50	7.5	4.3	6.4
16	18	8.2	13	e12.7	17	25	38	94	77	7.7	4.3	39
17	17	7.9	12	e13	18	26	31	79	102	7.7	4.1	17
18	17	7.7	27	14	19	24	29	142	60	7.2	4.1	11
19	15	7.5	23	15	17	25	25	132	47	7.2	4.0	9.7
20	15	8.9	18	e14	17	25	25	96	39	9.2	7.8	9.3
21	13	9.6	20	e12.5	23	33	23	82	35	7.6	6.4	8.9
22	13	8.0	18	12	23	36	22	71	31	6.9	5.1	8.9
23	13	7.3	21	12	22	26	25	62	31	11	5.2	13
24	13	7.4	28	14	20	25	22	55	29	16	5.3	11
25	14	9.5	27	18	20	24	22	52	23	10	6.8	9.2
26	12	11	e18	16	20	24	33	47	23	8.9	5.3	9.1
27	12	9.8	e15.5	15	20	50	27	46	27	8.5	4.7	27
28	12	8.8	e15	15	20	46	40	40	28	8.5	4.2	59
29	11	8.4	e14.5	15	---	41	89	37	21	9.3	20	25
30	11	8.4	e14	19	---	43	70	34	18	7.6	21	19
31	11	---	e13.5	20	---	42	---	36	---	6.7	11	---
TOTAL	411.2	279.3	440.6	452.7	543.3	857	1057	2147	1520	305.5	223.0	375.5
MEAN	13.3	9.31	14.2	14.6	19.4	27.6	35.2	69.3	50.7	9.85	7.19	12.5
MAX	21	11	28	20	29	50	89	231	204	17	21	59
MIN	8.0	7.3	7.7	12	15	18	22	28	18	6.7	4.0	5.2
CFSM	0.45	0.32	0.48	0.50	0.66	0.94	1.20	2.36	1.72	0.34	0.24	0.43
IN.	0.52	0.35	0.56	0.57	0.69	1.08	1.34	2.72	1.92	0.39	0.28	0.43

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

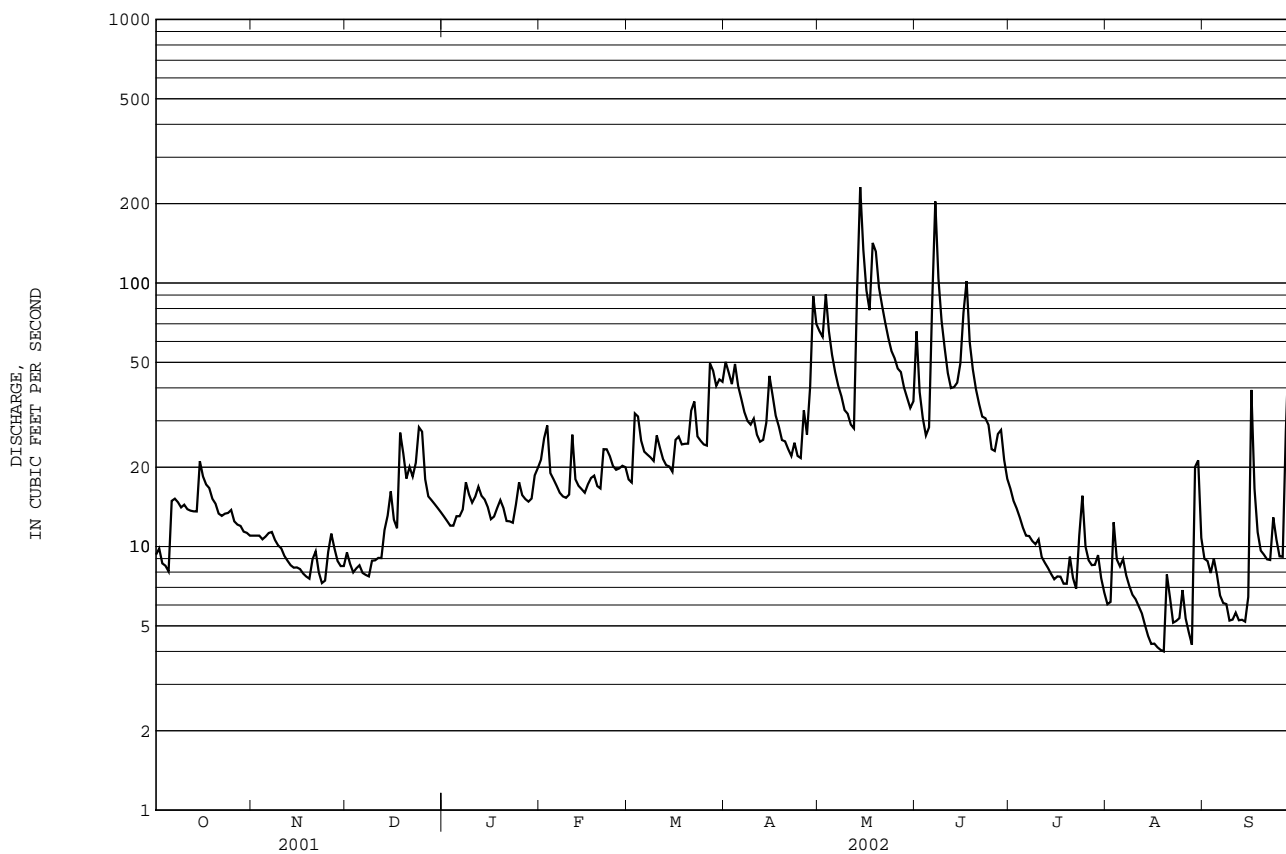
MEAN	31.7	40.2	52.7	50.6	55.2	83.8	93.3	61.2	41.6	26.3	21.7	20.7
MAX	100	92.2	155	130	134	194	198	181	118	94.1	95.1	72.6
(WY)	1978	1996	1984	1979	1982	1977	1997	1984	1972	1996	1976	1975
MIN	6.99	5.56	8.07	4.97	8.91	27.6	26.6	20.6	9.50	5.27	4.86	3.48
(WY)	1965	1965	1981	1981	1980	2002	1985	1965	1964	1993	1964	1964

e Estimated.

## 01199050 SALMON CREEK AT LIME ROCK, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1962 - 2002	
ANNUAL TOTAL	12574.6			8612.1				
ANNUAL MEAN	34.5			23.6			48.2	
HIGHEST ANNUAL MEAN							73.3	
LOWEST ANNUAL MEAN							15.9	
HIGHEST DAILY MEAN	336	Jun	3	231	May	14	1730	May 30 1984
LOWEST DAILY MEAN	3.6	Sep	8	4.0	Aug	19	1.5	Aug 11 1964
ANNUAL SEVEN-DAY MINIMUM	3.8	Sep	4	4.3	Aug	13	2.1	Aug 31 1995
MAXIMUM PEAK FLOW				259	May	14	1840	Mar 6 1979
MAXIMUM PEAK STAGE				2.42	May	14	5.90	Mar 6 1979
INSTANTANEOUS LOW FLOW				<b>a4.0</b>	Aug	16	0.70	Sep 25 1964
ANNUAL RUNOFF (CFSM)	1.17			0.80			1.64	
ANNUAL RUNOFF (INCHES)	15.91			10.90			22.27	
10 PERCENT EXCEEDS	70			46			100	
50 PERCENT EXCEEDS	20			15			31	
90 PERCENT EXCEEDS	7.6			7.3			8.6	

a Also occurred Aug. 17-20, 28, 29.



## 01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CT

**LOCATION.**--Lat 41°39'32", long 73°31'44", Dutchess County, New York, Hydrologic Unit 01100005, on right bank 0.1 mi downstream from Dewel Hollow Brook, 1.2 mi upstream from New York-Connecticut State line, 1.7 mi upstream from mouth, and 2.5 mi northwest of Gaylordsville.

**DRAINAGE AREA.**--203 mi<sup>2</sup>.

PERIOD of RECORD.--Discharge: October 1929 to September 1987, October 1991 to current year. Monthly discharge only for period October to December 1929, published in WSP 1301.

Partial record site: October 1987 to September 1991.

Water-quality records: Water years 1959, 1968, 1973-75, 1980.

Daily water temperature: Water year 1959.

Daily specific conductance: Water years 1958-59.

Daily pH: Water years 1958-59.

**REVISED RECORDS.**--WSP 1201: 1939. WSP 1701: 1955-56, 1957(M), 1958-59. WSP 1901: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 304.4 ft above sea level (levels by Connecticut Light and Power Company).

REMARKS.--Records poor. Infrequent regulation at low flow.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 1,400 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jun 7	1200	*1,860	*5.02	No other peak greater than base discharge.			

Minimum discharge, 20 ft<sup>3</sup>/s, Sept. 12, 13, 14, 15, gage height, 0.64 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e39	e26	39	101	e116	e98	e299	383	464	153	e33	49
2	37	e27	39	61	e110	e99	e306	382	333	136	32	42
3	e36	e28	39	53	e103	e128	e314	408	259	125	38	39
4	e35	e30	38	49	e94	e189	e326	345	224	114	38	58
5	e34	e28	37	46	e87	e195	e316	313	241	105	39	47
6	e34	e30	36	47	e81	e178	e289	288	733	93	49	36
7	e37	e28	45	53	e71	e129	181	267	1690	86	46	30
8	e38	e27	47	55	e79	e120	171	251	1240	81	39	28
9	e38	e28	50	60	e80	e123	167	231	818	78	35	26
10	e35	e27	50	57	e80	e128	179	222	650	80	31	25
11	e33	e27	46	57	e91	e138	174	203	552	72	29	23
12	e33	e27	42	e64	e142	e150	163	197	491	63	27	22
13	e32	e27	41	e63	e153	e148	161	334	495	59	25	20
14	e32	e27	42	e60	e124	e120	180	872	459	55	24	20
15	e35	e27	48	e57	e102	e110	318	663	513	53	23	21
16	e32	e26	52	e60	e99	e104	317	512	479	49	22	33
17	e32	e26	52	e57	e91	e123	260	444	467	44	22	66
18	e31	e26	60	e56	e85	e139	234	652	390	40	22	46
19	e30	e26	81	e53	e84	e120	225	776	341	42	21	33
20	e29	e27	77	e52	e87	e128	239	577	306	47	26	29
21	e29	e27	66	e51	e92	e151	215	509	274	49	25	27
22	e28	e27	61	e50	e132	e172	199	460	243	44	26	26
23	e27	e28	57	e52	e131	e158	199	408	222	43	24	26
24	e27	e28	62	e62	e142	e157	191	365	220	58	24	26
25	e28	e29	73	e63	e111	e135	185	334	188	59	24	27
26	e30	e38	73	e79	e105	e122	249	309	180	47	24	26
27	e35	e36	66	e100	e96	e179	222	295	217	43	23	34
28	e31	e35	72	e87	e109	e287	275	276	269	41	22	91
29	e27	e35	84	e78	---	e278	494	300	216	e40	38	100
30	e26	39	91	e92	---	e254	417	284	174	e37	82	66
31	e26	---	124	e101	---	e266	---	279	---	e34	68	---
TOTAL	995	867	1790	1976	2877	4826	7465	12139	13348	2070	1001	1142
MEAN	32.1	28.9	57.7	63.7	103	156	249	392	445	66.8	32.3	38.1
MAX	39	39	124	101	153	287	494	872	1690	153	82	100
MIN	26	26	36	46	71	98	161	197	174	34	21	20
CFSM	0.16	0.14	0.28	0.31	0.51	0.77	1.23	1.93	2.19	0.33	0.16	0.19
IN.	0.18	0.16	0.33	0.36	0.53	0.88	1.37	2.22	2.45	0.38	0.18	0.21

STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2002, BY WATER YEAR (WY)

MEAN	145	241	326	366	377	637	613	354	255	151	113	108
MAX	1222	1067	1083	1118	873	1690	1366	779	1078	998	1007	1082
(WY)	1956	1956	1997	1996	1976	1977	1983	1945	1984	1938	1955	1938
MIN	15.7	21.5	56.4	38.1	94.7	156	197	124	48.2	17.8	13.9	10.8
(WY)	1958	1965	1965	1981	1936	2002	1966	1941	1965	1957	1993	1957

e Estimated.

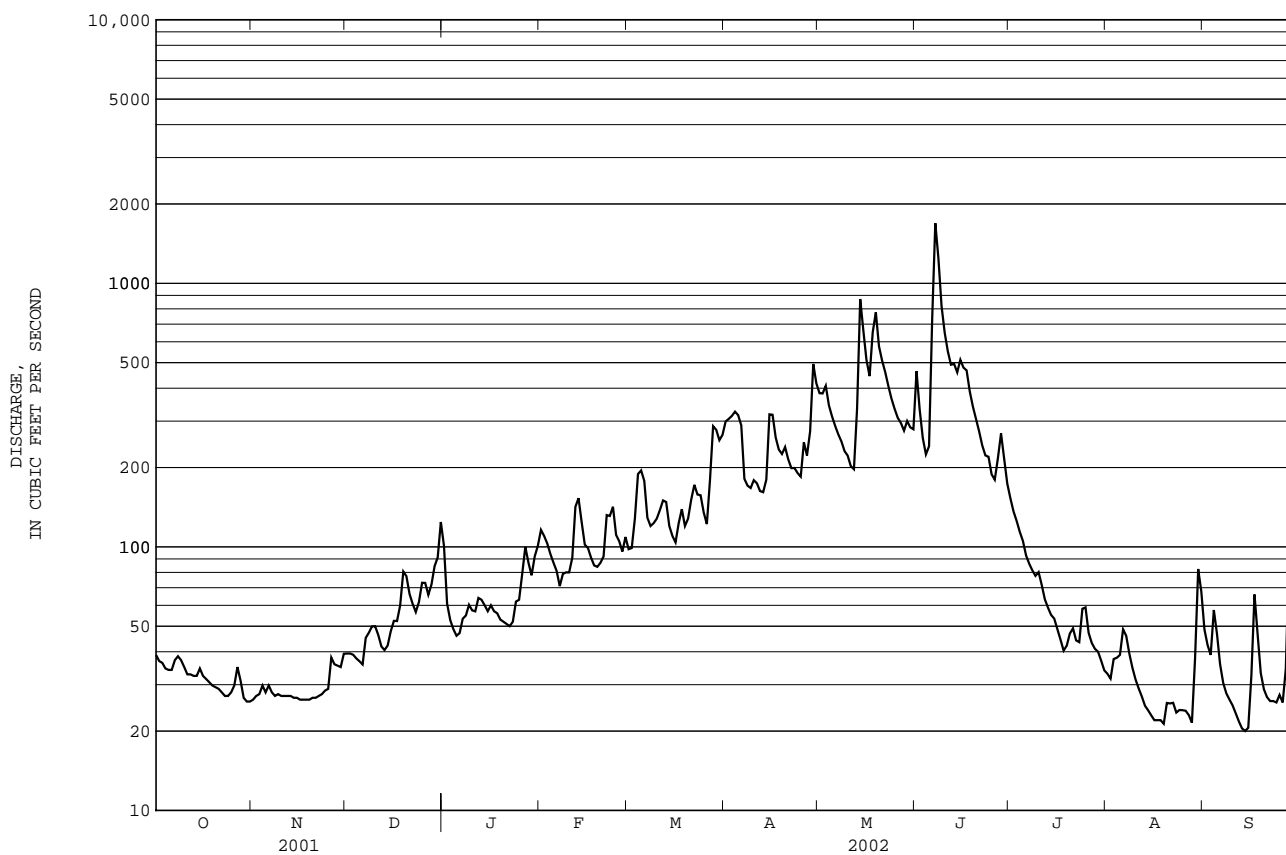
## 01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1931 - 2002	
ANNUAL TOTAL	84876.0		50496		306	
ANNUAL MEAN	233		138		497	
HIGHEST ANNUAL MEAN					1938	
LOWEST ANNUAL MEAN					90.7	
HIGHEST DAILY MEAN	2310	Mar 31	1690	Jun 7	10700	Aug 19 1955
LOWEST DAILY MEAN	17	Sep 8	20	Sep 13	7.0	Oct 7 1957
ANNUAL SEVEN-DAY MINIMUM	19	Sep 3	22	Sep 9	8.0	Oct 1 1957
MAXIMUM PEAK FLOW			1860	Jun 7	a17400	Aug 19 1955
MAXIMUM PEAK STAGE			5.02	Jun 7	b14.90	Aug 19 1955
INSTANTANEOUS LOW FLOW			c20	Sep 12	5.0	Sep 8 1957
ANNUAL RUNOFF (CFSM)	1.15		0.68		1.51	
ANNUAL RUNOFF (INCHES)	15.55		9.25		20.51	
10 PERCENT EXCEEDS	606		321		684	
50 PERCENT EXCEEDS	102		66		192	
90 PERCENT EXCEEDS	27		27		35	

a From rating curve extended above 9,800 ft<sup>3</sup>/s.

b From high water marks.

c Also occurred Sep. 13-15.



## HOUSATONIC RIVER BASIN

## 01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT

**LOCATION.**--Lat 41°39'11", long 73°29'25", Litchfield County, Hydrologic Unit 01100005, on left bank 0.4 mi downstream from hydroelectric plant of Connecticut Light and Power Co., 0.5 mi upstream from bridge on U.S. Rt. 7 at Gaylordsville, 1.5 mi downstream from Tennile River, and at mile 50.6.

**DRAINAGE AREA.**--996 mi<sup>2</sup>.

**PERIOD OF RECORD.**--Discharge: October 1900 to December 1904 (fragmentary), January 1905 to December 1908 (gage heights only), January 1909 to December 1912 (fragmentary), January 1913 to October 1914 (gage heights only), November 1914 (fragmentary), July 1940 to current year.

Water-quality records: Water years 1960, 1968.

Daily water temperature: Water years 1960, 1968.

Daily suspended-sediment discharge: Water years 1979-80.

**REVISED RECORDS.**--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 236.78 ft above sea level. October 1900 to November 1914, nonrecording gage on covered bridge 0.6 mi downstream at different datum. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Ordinary flow regulated by power plant upstream. High flow is regulated by flood-control reservoirs in 20.5 mi<sup>2</sup> of the Blackberry River Basin, but flood control does not affect monthly runoff appreciably.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood in May 1854 reached a stage of 21 ft<sup>3</sup> in, former site and datum; reported by observer in 1902. Flood of Sept. 22, 1938, reached a stage of 14.5 ft, from floodmarks, at present site, discharge, 37,000 ft<sup>3</sup>/s, by computation of peak flow over dam 2.5 mi upstream adjusted for flow from intervening area.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 6,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jun 8	0145	*6,300	*6.96	No other peak greater than base discharge.			

Minimum discharge, 146 ft<sup>3</sup>/s, Sept. 12, 13, 14, 15, gage height, 1.19 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	398	287	406	e418	e824	708	1930	2430	1920	713	241	423
2	412	277	394	e376	e786	716	1970	2440	1740	778	299	299
3	323	343	401	e349	e741	901	2020	2670	1380	676	317	288
4	400	398	391	e338	e685	1280	2090	2490	1200	590	450	351
5	364	300	400	e321	e637	1320	2030	2160	1250	595	454	289
6	277	325	386	410	e595	1210	1870	2010	2410	547	415	266
7	353	319	398	429	532	906	1640	1740	4980	455	346	227
8	503	320	375	445	582	849	1500	1550	5610	429	329	217
9	381	333	359	429	591	871	1390	1410	4280	453	197	197
10	319	373	341	429	590	900	1380	1360	3190	456	214	219
11	263	326	344	435	663	961	1590	1330	2540	441	223	193
12	271	332	330	480	988	1040	1520	1290	2090	357	206	160
13	256	336	309	479	1060	1030	1410	1530	1920	396	218	146
14	316	337	309	458	873	849	1360	4220	1870	387	174	146
15	241	356	379	436	731	787	1820	4840	1940	334	201	148
16	235	308	536	458	716	745	2080	4070	1860	326	170	218
17	436	315	535	e438	664	872	2010	3260	2250	316	170	427
18	456	298	618	e425	621	971	1800	3450	2220	254	170	390
19	457	295	977	e411	618	848	1590	4320	1920	259	163	371
20	428	315	1260	401	635	901	1490	3820	1640	452	179	284
21	487	313	1050	e394	666	1050	1340	3230	1360	571	165	245
22	292	310	901	385	926	1180	1250	2710	1240	648	171	230
23	363	333	861	402	918	1090	1260	2360	1120	435	163	220
24	375	324	788	468	991	1080	1180	2090	1110	498	165	163
25	369	300	937	477	794	945	1200	1860	1040	618	164	204
26	351	361	977	584	753	862	1370	1690	997	530	216	198
27	342	358	e838	719	695	1210	1470	1570	1020	419	164	331
28	302	386	e664	635	781	1860	1640	1520	956	352	157	419
29	243	409	e539	577	---	1810	2290	1510	886	292	310	675
30	274	426	e501	e668	---	1670	2390	1340	823	368	357	559
31	304	---	e460	e725	---	1740	---	1400	---	386	394	---
TOTAL	10791	10013	17964	14399	20656	33162	49880	73670	58762	14331	7562	8503
MEAN	348	334	579	464	738	1070	1663	2376	1959	462	244	283
MAX	503	426	1260	725	1060	1860	2390	4840	5610	778	454	675
MIN	235	277	309	321	532	708	1180	1290	823	254	157	146
CFSM	0.35	0.34	0.58	0.47	0.74	1.07	1.67	2.39	1.97	0.46	0.24	0.28
IN.	0.40	0.37	0.67	0.54	0.77	1.24	1.86	2.75	2.19	0.54	0.28	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
MEAN	933	1412	1742	1833	1867	3011	3494	2202	1469	880	724	631
MAX	4500	5024	4926	6599	4398	6529	6685	5079	4538	3323	4433	2297
(WY)	1956	1956	1997	1949	1976	1977	1993	1989	1984	1972	1955	1975
MIN	203	203	411	288	592	1037	972	810	389	236	213	153
(WY)	1965	1965	1965	1981	1980	1965	1985	1965	1964	1965	1964	1995

e Estimated.

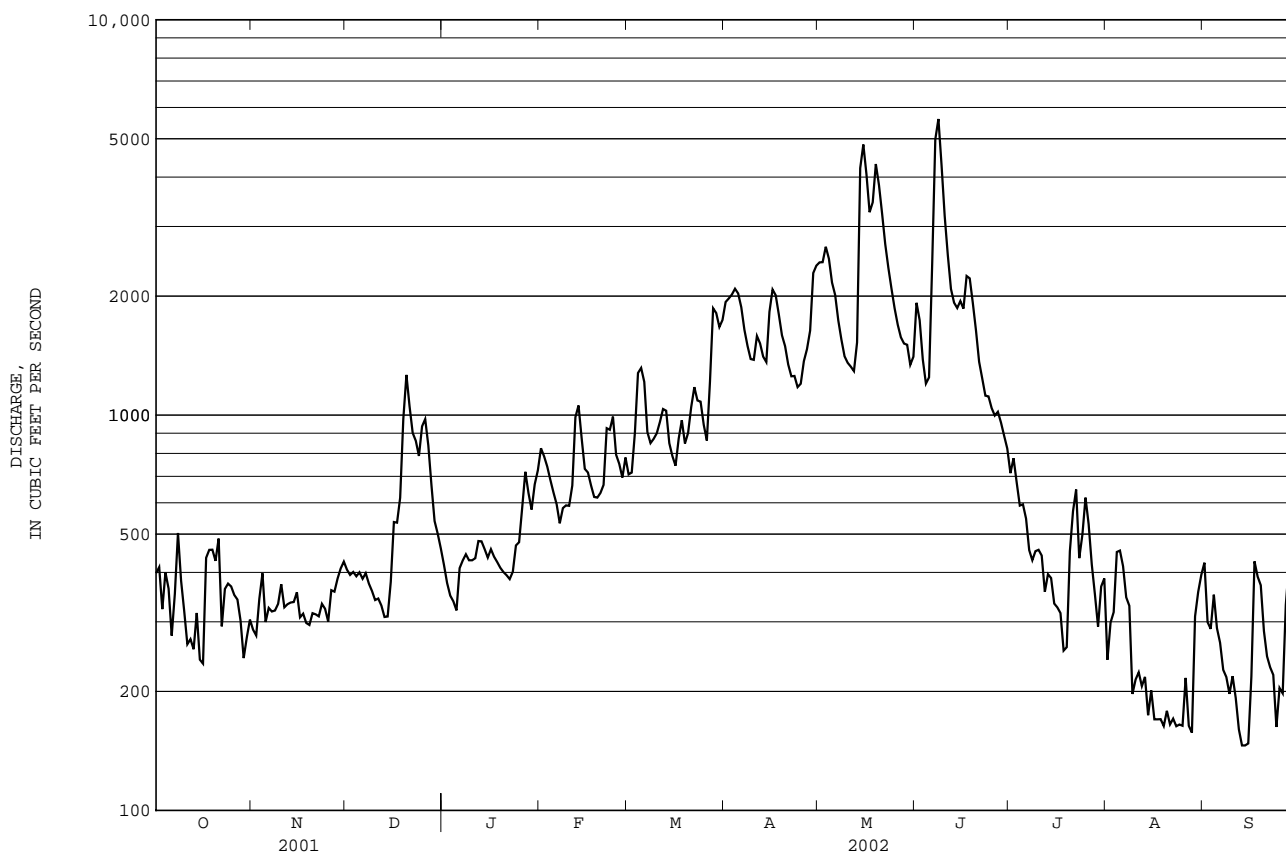
## 01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1941 - 2002	
ANNUAL TOTAL	502345		319693		1681	
ANNUAL MEAN	1376		876		2557	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	10100	Apr 11	5610	Jun 8	38800	Aug 19 1955
LOWEST DAILY MEAN	148	Sep 1	146	Sep 13	<b>a</b> 60	Aug 31 1944
ANNUAL SEVEN-DAY MINIMUM	168	Sep 1	167	Aug 19	104	Aug 18 1981
MAXIMUM PEAK FLOW			6300	Jun 8	51800	Aug 19 1955
MAXIMUM PEAK STAGE			6.96	Jun 8	18.58	Aug 19 1955
INSTANTANEOUS LOW FLOW			<b>c</b> 146	Sep 12	<b>b</b> 30	Oct 28 1914
ANNUAL RUNOFF (CFSM)	1.38		0.88		1.69	
ANNUAL RUNOFF (INCHES)	18.76		11.94		22.93	
10 PERCENT EXCEEDS	3390		1920		3660	
50 PERCENT EXCEEDS	850		503		1150	
90 PERCENT EXCEEDS	276		239		328	

**a** Also occurred on Sep. 20, 1949.

**b** Site and datum then in use.

**c** Also occurred Sep. 13-15.



## HOUSATONIC RIVER BASIN

## 01200600 HOUSATONIC RIVER NEAR NEW MILFORD, CT

**LOCATION.**--Lat 41°35'35", long 73°27'00", Litchfield County, Hydrologic Unit 01100005, at Boardman Bridge, 2.3 mi northwest of New Milford, 6.9 mi downstream from Tenmile River, 1.9 mi upstream from Aspetuck River and 4.7 mi upstream from Still River.  
**DRAINAGE AREA.**--1,022 mi<sup>2</sup>.  
**PERIOD of RECORD.**--Water years 1962, 1963, 1974 to 1991, 1995 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	
Date	Time													
NOV 13...	1330	365	373	8.3	11.5	5.0	1.1	13.5	105	7k	3k	150	36.7	
JAN 17...	1340	570	355	7.6	10.0	1.0	1.8	14.1	99	8k	680	140	35.4	
MAY 28...	1330	1060	286	8.1	23.5	18.0	1.9	9.6	103	33k	22k	120	29.5	
JUL 18...	1330	260	374	8.3	30.5	26.5	.93	8.4	106	46	56	150	34.3	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SOLVED TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)
	NOV 13...	14.4	18.6	2.31	0	166	138	14.8	29.2	<.1	.55	206	206	<.008
	JAN 17...	13.7	20.6	2.07	0	143	119	14.7	33.3	<.1	4.13	204	206	E.005
	MAY 28...	10.6	12.0	1.18	0	120	98	10.4	20.7	<.1	3.07	158	163	E.005
	JUL 18...	14.9	18.0	2.14	0	166	136	11.5	30.0	<.10	2.68	207	203	E.005
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L) AS N (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L) AS N (00623)	NITRO-GEN, PHOS-PHORUS TOTAL (MG/L) AS P (00665)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L) AS P (00671)	ALUM-INUM, DIS-SOLVED (UG/L) AS AL (01106)	ANTI-MONY, DIS-SOLVED (UG/L) AS SB (01095)	BARIUM, DIS-SOLVED (UG/L) AS BA (01005)	BERYL-LIUM, DIS-SOLVED (UG/L) AS BE (01010)	
	NOV 13...	.54	<.04	--	.32	.30	.86	.017	.010	<.02	2	.07	16	<.06
	JAN 17...	.80	.06	.27	.33	.32	1.1	.029	.019	.02	4	E.05	13	<.06
	MAY 28...	.32	<.04	--	.30	.25	.62	.036	.013	<.02	7	.06	12	<.06
	JUL 18...	.17	<.04	--	.41	.24	.58	.028	.008	<.02	3	.12	16	<.06
Date		CADMIUM, DIS-SOLVED (UG/L) AS CD (01025)	CHRO-MIUM, DIS-SOLVED (UG/L) AS CR (01030)	COBALT, DIS-SOLVED (UG/L) AS CO (01035)	COPPER, DIS-SOLVED (UG/L) AS CU (01040)	IRON, DIS-SOLVED (UG/L) AS FE (01046)	LEAD, DIS-SOLVED (UG/L) AS PB (01049)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L) AS MO (01060)	NICKEL, DIS-SOLVED (UG/L) AS NI (01065)	SILVER, DIS-SOLVED (UG/L) AS AG (01075)	ZINC, DIS-SOLVED (UG/L) AS ZN (01090)	URANIUM NATURAL DIS-SOLVED (UG/L) AS U (22703)	CARBON, ORGANIC TOTAL (MG/L) AS C (00680)
	NOV 13...	<.04	<.8	.13	1.0	67	.11	4.4	.5	.37	<1	1	.57	4.0
	JAN 17...	E.02	<.8	.13	.9	60	.09	4.9	.6	1.30	<1	4	.51	2.8
	MAY 28...	<.04	<.8	.12	1.1	33	E.08	8.5	E.1	.31	<1	<1	.32	3.6
	JUL 18...	<.04	<.8	.19	1.1	12	<.08	4.8	.7	.72	<1	<1	.58	4.0

Value qualifier codes used in this report:  
 k -- Counts outside acceptable range



## Science Challenge

What is the world's largest island?

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Greenland is the world's largest island at 840,000 square miles.

## HOUSATONIC RIVER BASIN

## 01201487 STILL RIVER AT RT 7 AT BROOKFIELD CENTER, CT

**LOCATION.**--Lat 41°27'58", long 73°24'13", Litchfield County, Hydrologic Unit 01100005, on bridge on upstream side of State Rt. 7 South, 800 ft upstream from Silvermile Rd.

**DRAINAGE AREA.**--62.3 mi<sup>2</sup>.

**PERIOD of RECORD.**--November 7, 2001 to September 30, 2002.

**GAGE.**--Water-stage recorder. Datum of gage is 256.18 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good. except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 739 ft<sup>3</sup>/s, June 7, gage height, 10.74 ft; minimum discharge, 13 ft<sup>3</sup>/s, Aug. 28, gage height, 5.91 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	25	e27	75	41	102	113	145	52	27	35
2	---	---	26	e26	94	39	81	98	90	49	85	168
3	---	---	23	e25	62	314	73	144	71	51	132	146
4	---	---	21	e25	54	165	100	96	62	49	53	174
5	---	---	23	e24	49	87	78	77	99	43	49	89
6	---	---	24	e24	45	73	69	69	128	37	41	52
7	---	25	24	32	45	68	63	62	621	47	39	38
8	---	24	25	e30	45	62	62	60	305	39	39	32
9	---	23	46	e28	43	62	60	55	186	44	45	29
10	---	22	41	34	42	83	67	56	142	58	50	28
11	---	21	33	43	116	64	60	50	115	36	54	26
12	---	21	35	44	70	56	58	68	133	32	48	26
13	---	22	28	42	55	56	61	255	166	34	40	24
14	---	22	33	40	47	76	59	461	157	32	41	23
15	---	22	51	43	44	59	122	179	185	33	36	35
16	---	22	34	45	45	60	84	121	159	33	37	95
17	---	22	30	45	47	55	66	100	148	38	37	92
18	---	21	121	43	47	60	59	377	120	41	30	44
19	---	21	85	39	43	74	56	292	97	56	29	32
20	---	29	58	e37	42	98	62	170	85	55	50	28
21	---	e26	45	e36	116	149	62	134	77	22	34	26
22	---	24	39	44	74	92	56	112	70	20	22	24
23	---	21	35	48	55	72	58	97	64	51	20	24
24	---	22	108	69	47	65	52	86	60	87	19	23
25	---	25	71	88	45	61	59	76	59	45	21	21
26	---	59	50	67	44	60	88	70	71	35	19	24
27	---	36	44	59	45	174	60	71	81	34	18	132
28	---	37	e36	55	44	107	127	180	86	36	18	84
29	---	26	e32	54	---	82	190	150	69	40	174	45
30	---	26	e30	60	---	77	110	109	59	29	90	34
31	---	---	e28	57	---	73	---	105	---	27	47	---
TOTAL	---	---	1304	1333	1580	2664	2304	4093	3910	1285	1444	1653
MEAN	---	---	42.1	43.0	56.4	85.9	76.8	132	130	41.5	46.6	55.1
MAX	---	---	121	88	116	314	190	461	621	87	174	174
MIN	---	---	21	24	42	39	52	50	59	20	18	21
CFSM	---	---	0.68	0.69	0.91	1.38	1.23	2.12	2.09	0.67	0.75	0.88
IN.	---	---	0.78	0.80	0.94	1.59	1.38	2.44	2.33	0.77	0.86	0.99

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	---	---	42.1	43.0
MAX	---	---	42.1	43.0
(WY)	---	---	2002	2002
MIN	---	---	42.1	43.0
(WY)	---	---	2002	2002

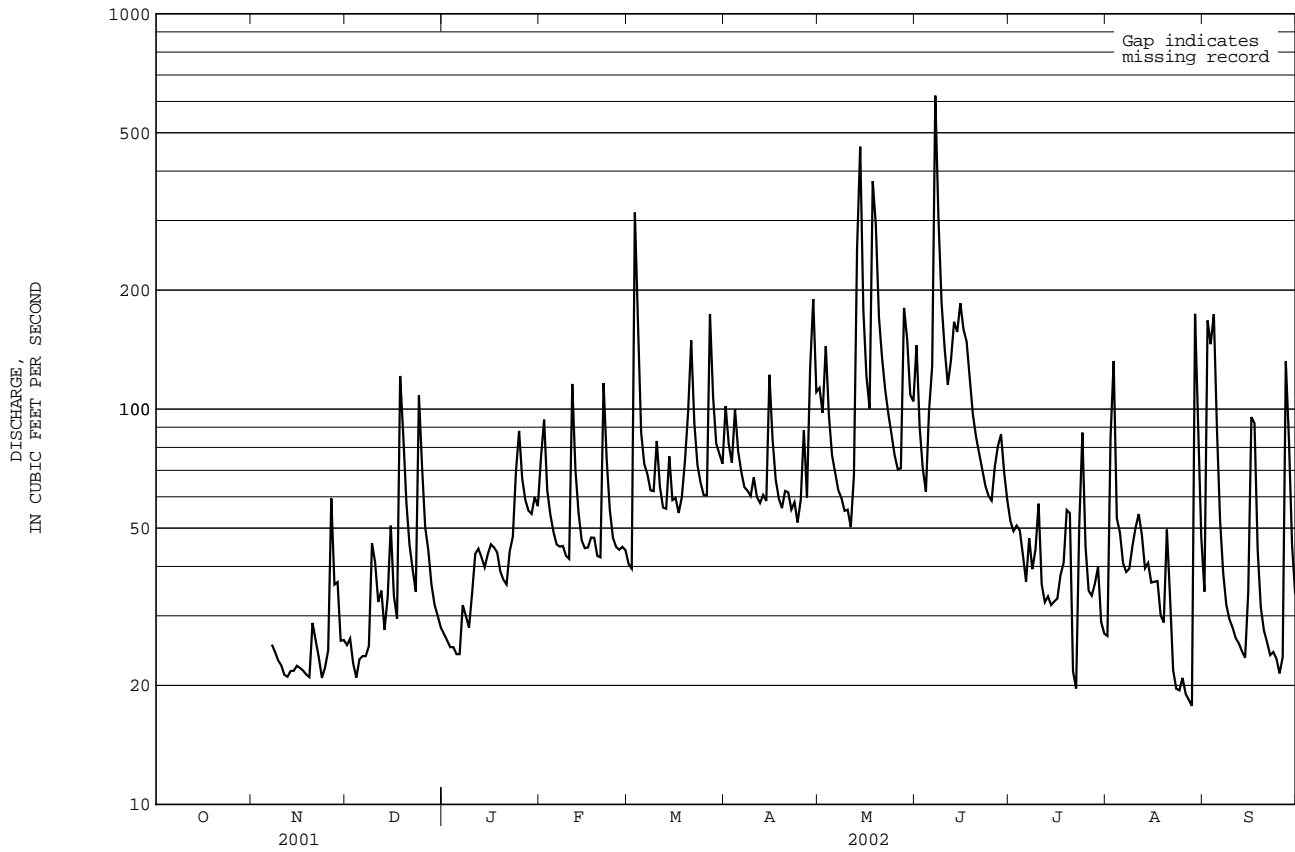
e Estimated.

## 01201487 STILL RIVER AT RT 7 AT BROOKFIELD CENTER, CT--Continued

## SUMMARY STATISTICS

WATER YEARS 2001 - 2002

HIGHEST DAILY MEAN	621	Jun 7 2002
LOWEST DAILY MEAN	18	Aug 27 2002
ANNUAL SEVEN-DAY MINIMUM	20	Aug 22 2002
MAXIMUM PEAK FLOW	739	Jun 7 2002
MAXIMUM PEAK STAGE	10.74	Jun 7 2002
INSTANTANEOUS LOW FLOW	13	Aug 28 2002



## HOUSATONIC RIVER BASIN

## 01201487 STILL RIVER AT RT 7 AT BROOKFIELD CENTER, CT--Continued

PERIOD of RECORD.--October 1983 to current year.

REMARKS.--Water-quality records for this site published under station 01201485 from water year 1984 to water year 1992.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	FECAL COLIFORM, MFC MF, WATER (COL/100 ML) (31616)	ENTEROCOCCI, MEI MF, WATER (COL/100 ML) (90909)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 14...	1250	20	633	7.7	14.0	8.0	1.8	12.1	103	5560k	1080	180	44.7	
JAN 14...	1255	35	616	7.5	16.5	3.0	4.2	12.2	91	5900	1080	170	43.3	
MAR 25...	1200	56	518	7.7	4.5	6.5	4.1	10.4	85	228	76	160	41.7	
MAY 14...	1200	505	219	7.4	14.0	11.0	17	9.3	87	3900	6300k	74	19.0	
JUN 26...	1015	45	619	7.7	28.0	21.5	2.6	7.4	85	224	168	180	48.1	
JUL 17...	1200	33	731	7.7	28.5	21.5	.96	7.8	90	560	66	200	52.3	
AUG 28...	0945	17	756	7.8	20.0	21.0	2.0	7.6	85	160	140	190	50.2	
SEP 11...	1200	22	718	7.8	20.5	20.5	1.2	7.8	91	740	96	200	54.4	
		MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 14...	15.7	54.1	9.53	0	157	131	34.4	77.6	.4	6.84	380	380	.023	
JAN 14...	14.4	52.0	6.55	0	159	132	25.6	83.3	.2	8.14	354	358	.106	
MAR 25...	14.0	38.6	5.21	0	137	113	24.6	62.8	.2	7.30	299	255	.014	
MAY 14...	6.36	12.8	2.65	0	70	57	10.1	19.4	<.1	5.89	135	148	.009	
JUN 26...	14.8	46.0	6.57	0	154	126	27.7	77.5	.2	7.36	368	391	.023	
JUL 17...	16.4	58.8	13.1	0	156	128	40.0	95.1	.4	7.94	440	462	.126	
AUG 28...	15.2	67.7	11.7	0	126	103	42.0	109	.5	7.53	482	334	.022	
SEP 11...	16.1	59.2	10.2	0	146	120	36.9	97.6	.3	8.35	444	417	.022	
		NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTIMONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)
NOV 14...	10.0	<.04	--	.92	.75	11	1.15	1.04	.97	4	.32	23	<.06	
JAN 14...	5.16	.81	.79	1.6	1.5	6.8	.86	.81	.73	11	.40	25	<.06	
MAR 25...	8.15	.04	.58	.63	.51	8.8	.66	.61	.60	6	.32	26	<.06	
MAY 14...	.94	.06	.76	.83	.38	1.8	.193	.053	.03	16	.24	16	<.06	
JUN 26...	7.64	E.02	--	.60	.44	8.2	.32	.26	.25	8	.39	32	<.06	
JUL 17...	11.7	.06	.72	.78	.73	12	.199	.168	.14	9	.49	31	<.06	
AUG 28...	14.2	E.03	--	.66	.63	15	.24	.21	.19	8	.52	28	<.06	
SEP 11...	11.6	<.04	--	.67	.56	12	.114	.092	.07	10	.39	33	<.06	

## 01201487 STILL RIVER AT RT 7 AT BROOKFIELD CENTER, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 14...	.06	<.8	.27	6.4	76	.20	34.9	6.6	2.32	<1	28	.91	7.6
JAN 14...	E.03	<.8	.30	3.4	76	.25	122	2.7	1.76	<1	25	1.30	7.1
MAR 25...	E.03	E.7	.29	3.3	112	.19	83.2	3.9	1.62	<1	22	1.05	4.6
MAY 14...	<.04	<.8	.15	2.2	135	.34	48.2	.9	.89	<1	4	.30	9.5
JUN 26...	.05	<.8	.25	6.6	72	.20	60.0	9.8	1.28	<1	12	1.00	5.1
JUL 17...	.07	<.8	.40	6.3	38	.15	63.7	13.1	4.52	<1	16	.98	5.5
AUG 28...	.09	<.8	.30	10.3	27	.16	38.9	14.9	3.57	<1	20	.72	5.6
SEP 11...	.04	<.8	.27	5.9	32	.10	42.5	10.7	3.71	<1	12	.93	5.3

Value qualifier codes used in this report:

k -- Counts outside acceptable range

## HOUSATONIC RIVER BASIN

## 01202501 SHEPAUG RIVER AT PETER'S DAM AT WOODVILLE, CT

**LOCATION.**--Lat 41°71'92", long 73°29'33", Litchfield County, Hydrologic Unit 01100005, on upstream side of Peter's Dam, 0.2 mi downstream from Shepaug Reservoir Dam, at end of Reservoir Rd., 1 mi north of Woodville.

**DRAINAGE AREA.**--38.1 mi<sup>2</sup>.

**PERIOD of RECORD.**--August 2000 to current year.

**GAGE.**--Water-stage recorder and crest-stage gage. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow regulated by Shepaug Reservoir.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 921 ft<sup>3</sup>/s, June 7, gage height, 3.48 ft; minimum discharge, 3.6 ft<sup>3</sup>/s, on many days, gage height, 0.88 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	3.9	4.0	4.5	5.7	8.4	35	69	139	7.9	8.9	4.7
2	7.6	4.0	3.7	4.3	5.8	8.4	34	68	87	7.9	8.9	4.7
3	7.3	4.0	3.7	4.3	5.6	11	33	72	57	8.2	8.5	4.6
4	7.2	3.9	3.8	4.2	5.6	9.2	34	59	42	8.4	8.4	5.4
5	7.2	3.7	3.9	4.2	5.4	8.0	32	52	42	8.1	8.7	5.1
6	7.2	3.7	3.9	4.2	5.3	7.9	30	46	223	7.6	8.4	4.6
7	6.7	3.8	3.8	4.2	5.3	7.8	27	43	739	7.5	6.6	4.5
8	6.6	3.7	3.6	4.2	5.2	7.9	26	41	355	7.5	6.6	4.6
9	6.2	3.7	3.6	4.2	5.2	7.9	26	39	199	8.3	6.6	4.5
10	6.0	3.7	3.6	4.2	5.3	8.5	29	37	132	8.2	6.6	4.4
11	5.8	3.7	4.0	4.4	6.6	9.8	24	34	95	7.9	6.6	4.5
12	5.6	3.7	4.3	4.3	6.0	11	15	33	76	7.7	6.6	4.4
13	5.4	3.7	4.5	4.5	5.8	11	13	62	67	7.6	6.6	4.5
14	5.3	3.7	4.9	4.5	5.6	14	17	186	66	7.5	6.6	4.3
15	5.5	3.8	4.5	4.4	5.5	24	48	114	76	7.7	6.2	4.5
16	4.8	3.9	4.2	4.4	5.5	28	60	82	67	8.4	5.9	5.0
17	4.7	3.7	4.4	4.5	5.6	27	52	68	59	8.5	5.8	4.6
18	4.6	3.7	5.1	4.5	5.6	27	50	116	51	8.7	5.8	4.5
19	4.4	3.8	4.8	4.4	5.6	27	46	132	44	10	5.6	4.5
20	4.3	3.8	4.7	4.3	5.6	31	43	89	39	9.7	6.5	4.6
21	4.3	3.7	4.6	4.3	6.8	36	39	72	34	9.2	5.8	4.5
22	4.3	3.7	4.3	4.3	7.4	44	35	62	31	9.2	5.6	4.6
23	4.3	3.7	4.3	4.4	7.7	36	37	54	30	9.7	5.6	6.4
24	4.3	3.7	5.3	4.6	7.6	34	35	51	29	9.6	5.3	5.5
25	4.3	3.9	5.1	5.0	8.0	33	35	49	11	9.6	5.1	4.6
26	3.9	3.8	4.8	5.0	8.6	31	50	44	7.7	9.6	5.0	6.2
27	3.8	3.8	4.7	5.0	8.8	57	51	43	14	9.6	4.9	8.1
28	3.7	3.8	4.6	5.2	8.5	57	67	37	16	9.5	4.8	8.9
29	3.8	3.7	4.5	5.4	---	43	116	32	9.8	9.4	5.0	8.6
30	3.7	3.9	4.5	5.7	---	37	84	33	7.8	9.6	4.6	9.2
31	3.7	---	4.5	5.5	---	34	---	47	---	9.4	4.7	---
TOTAL	164.5	113.3	134.2	141.1	175.2	736.8	1223	1966	2845.3	267.7	196.8	159.1
MEAN	5.31	3.78	4.33	4.55	6.26	23.8	40.8	63.4	94.8	8.64	6.35	5.30
MAX	8.0	4.0	5.3	5.7	8.8	57	116	186	739	10	8.9	9.2
MIN	3.7	3.7	3.6	4.2	5.2	7.8	13	32	7.7	7.5	4.6	4.3

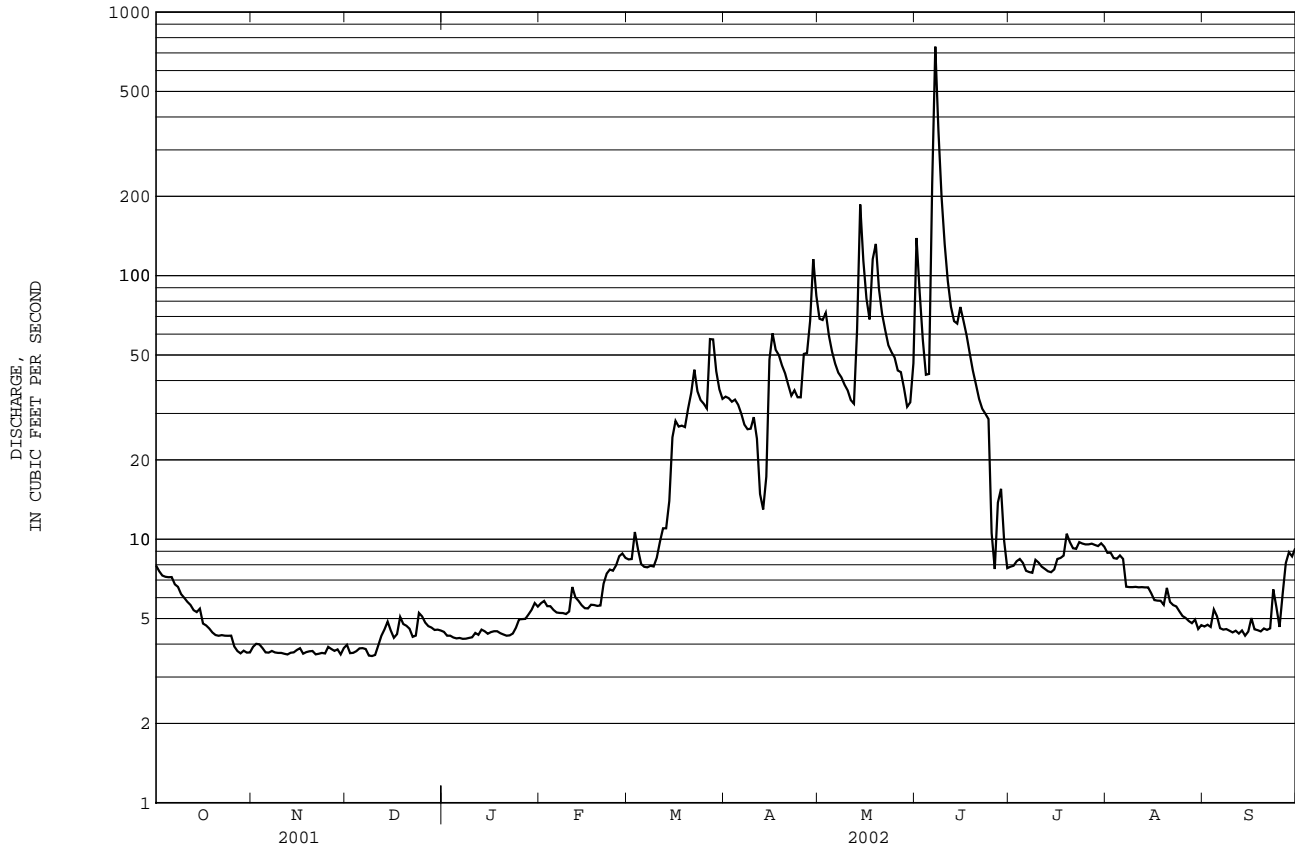
## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
MEAN	5.94	14.3	38.0	9.84	14.7	52.2	100	48.0	84.5	9.69	6.49	6.11
MAX	6.57	24.9	71.6	15.1	23.2	80.6	160	63.4	94.8	10.8	6.64	6.91
(WY)	2001	2001	2001	2001	2001	2001	2001	2002	2002	2001	2001	2001
MIN	5.31	3.78	4.33	4.55	6.26	23.8	40.8	32.5	74.1	8.64	6.35	5.30
(WY)	2002	2002	2002	2002	2002	2002	2002	2001	2001	2002	2002	2002

## 01202501 SHEPAUG RIVER AT PETER'S DAM AT WOODVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2001 - 2002	
ANNUAL TOTAL	12807.3		8123.0			
ANNUAL MEAN	35.1		22.3			
HIGHEST ANNUAL MEAN					42.6	2001
LOWEST ANNUAL MEAN					22.3	2002
HIGHEST DAILY MEAN	574	Apr 10	739	Jun 7	739	Jun 7 2002
LOWEST DAILY MEAN	3.6	Dec 8	3.6	Dec 8	3.6	Dec 8 2001
ANNUAL SEVEN-DAY MINIMUM	3.7	Nov 8	3.7	Nov 8	3.7	Nov 8 2001
MAXIMUM PEAK FLOW			921	Jun 7	921	Jun 7 2002
MAXIMUM PEAK STAGE			3.48	Jun 7	3.48	Jun 7 2002
INSTANTANEOUS LOW FLOW			a3.6	Oct 21	3.6	Oct 21 2001
10 PERCENT EXCEEDS	86		53		68	
50 PERCENT EXCEEDS	7.7		6.6		8.5	
90 PERCENT EXCEEDS	3.9		3.9		4.4	

a Also occurred Oct.26-31, Nov. 1, 2, 4-24, 26-30, Dec. 2-11, 22.



## HOUSATONIC RIVER BASIN

## 01203000 SHEPAUG RIVER NEAR ROXBURY, CT

**LOCATION.**--Lat 41°32'59", long 73°19'49", Litchfield County, Hydrologic Unit 01100005, on right bank at downstream side of Wellers Bridge 0.5 mi south of Roxbury Station, 1.2 mi southwest of village of Roxbury, and 2.4 mi upstream from Jacks Brook.

**DRAINAGE AREA.**--132 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water years 1953-54, 1959, 1974 to current year.

**PERIOD of DAILY RECORD.**--

WATER TEMPERATURES: October 1958 to September 1959.

**REMARKS.**--Records of daily discharge from October 1930 to September 1971 in reports of the U.S. Geological Survey.

**EXTREMES FOR PERIOD of DAILY RECORD.**--

WATER TEMPERATURES: Maximum, 25.0°C Aug. 17, 1959; minimum, 0.0°C Dec. 14, 1958.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 14...	1045	29	156	7.2	12.0	3.0	.70	14.2	106	32	22	52	12.7	
JAN 14...	1025	72	162	7.2	16.5	.5	.74	15.2	106	84	56k	51	12.5	
MAR 25...	1440	190	131	7.1	7.5	5.0	1.9	13.4	106	6k	7k	41	9.74	
MAY 29...	1415	195	124	8.4	27.0	19.0	1.4	9.6	104	28	11k	41	9.90	
JUN 26...	1300	120	132	8.7	26.0	24.0	1.1	9.5	114	36	29	41	9.83	
JUL 17...	0900	31	145	7.4	26.0	21.0	1.8	8.8	99	92	144	48	11.6	
AUG 28...	1230	15	148	7.9	21.0	21.5	1.5	9.7	99	68	62	47	11.4	
SEP 11...	1015	20	152	7.8	23.5	22.0	1.6	8.8	104	88	88	51	12.6	
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 14...	4.94	8.73	1.83	0	50	42	9.3	14.1	E.1	.90	84	80	<.008	
JAN 14...	4.88	9.57	1.81	0	45	37	9.1	17.8	E.1	4.86	92	94	.008	
MAR 25...	4.11	6.80	1.31	0	33	27	8.8	11.6	<.1	3.61	74	90	<.008	
MAY 29...	4.02	6.99	1.20	0	40	33	7.5	10.8	<.1	3.65	66	69	<.008	
JUN 26...	4.01	6.75	1.25	0	46	38	6.9	11.5	<.1	3.65	75	75	<.008	
JUL 17...	4.58	8.18	1.55	0	52	43	7.0	12.5	E.07n	1.40	84	78	<.008	
AUG 28...	4.52	8.23	1.84	0	49	40	7.5	12.1	E.07n	1.54	82	72	<.008	
SEP 11...	4.76	8.50	1.89	0	52	43	8.1	12.7	E.1n	1.93	83	79	<.008	
		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV 14...	.35	<.04	.19	.13	.54	.007	E.004	<.02	2	E.03	11	<.06	<.04	
JAN 14...	.66	E.02	.24	.21	.90	.042	.041	.03	3	E.04	12	<.06	<.04	
MAR 25...	.15	<.04	.25	.19	.40	.025	.011	<.02	13	.09	10	<.06	<.04	
MAY 29...	.13	<.04	.32	.22	.45	.033	.018	<.02	18	E.03	10	<.06	<.04	
JUN 26...	.06	<.04	.30	.21	.37	.024	.015	<.02	23	.07	10	<.06	<.04	
JUL 17...	.09	<.04	.34	.26	.43	.030	.017	<.02	11	E.04	12	<.06	E.02	
AUG 28...	.17	<.04	.28	.25	.46	.031	.023	E.01	29	E.04	10	<.06	<.04	
SEP 11...	.26	<.04	.27	.23	.53	.033	.024	E.01	22	E.04	11	<.06	<.04	



## 01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 14...	<.8	.06	.7	30	E.04	4.6	E.2	.30	<1	2	.12	2.6
JAN 14...	<.8	.05	.9	59	.09	4.6	E.2	.38	<1	2	.12	3.0
MAR 25...	E.5	.06	1.0	59	.08	9.3	E.2	.31	<1	1	.15	3.8
MAY 29...	<.8	.06	.9	78	.08	9.1	<.2	.21	<1	1	.13	4.7
JUN 26...	<.8	.06	1.1	66	E.07	8.3	.8	.24	<1	1	.15	4.2
JUL 17...	<.8	.11	1.1	56	E.05	19.3	E.2	.68	<1	1	.12	4.0
AUG 28...	<.8	.11	1.8	107	.11	13.0	.5	.47	<1	1	.17	3.4
SEP 11...	<.8	.09	1.2	84	.08	12.3	.3	.70	<1	<1	.14	3.7

Value qualifier codes used in this report:

k -- Counts outside acceptable range  
n -- Below the NDV

## HOUSATONIC RIVER BASIN

## 01203600 NONENWAUG RIVER AT MINORTOWN, CT

**LOCATION.**--Lat 41°34'32", long 73°10'45", Litchfield County, Hydrologic Unit 01100005, on right bank 1,000 ft downstream from bridge by State Rts. 6 and 202 at Minortown, and 2.5 mi northeast of Woodbury.

**DRAINAGE AREA.**--17.7 mi<sup>2</sup>.

**PERIOD of RECORD.**--September 1962 to September 1976; October 1978 to September 1979; 2000 to current year.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 354.69 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records fair, except those for periods of estimated record, which are poor. Flow regulated by the Lockwood Reservoir. Diversion for municipal supply for town of Watertown.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 338 ft<sup>3</sup>/s, May 13, June 7, gage height, 3.20 ft; minimum discharge, 0.60 ft<sup>3</sup>/s, Aug. 26, gage height, 0.95 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	4.9	4.7	e5.5	21	11	38	46	41	5.1	2.5	4.2
2	11	4.0	3.9	e5.4	21	11	26	55	22	4.3	33	17
3	8.1	5.9	3.7	e5.3	18	71	26	63	18	4.4	17	9.4
4	6.8	6.1	4.1	e5.3	e13	33	30	41	17	3.8	6.8	17
5	5.7	4.8	4.2	e5.3	e11.5	21	23	35	25	2.9	8.5	7.6
6	6.2	4.3	3.8	e5.3	e10	19	21	30	44	2.5	8.8	5.5
7	5.9	4.5	4.1	7.1	9.7	18	19	27	196	3.2	4.8	4.6
8	4.8	5.5	3.8	10	e9.3	18	19	24	64	2.3	3.9	3.6
9	4.5	5.7	5.8	6.5	e9.0	18	20	21	43	2.2	3.8	2.8
10	5.3	5.3	5.4	6.7	9.7	22	28	25	33	3.8	3.2	2.1
11	4.6	5.3	5.3	8.3	44	19	21	19	24	3.2	3.2	1.9
12	4.7	4.7	6.4	8.5	22	18	19	24	26	2.8	2.9	1.2
13	6.2	4.7	6.3	8.4	16	18	22	130	25	2.3	2.8	1.7
14	5.3	4.6	6.4	7.9	21	18	21	134	33	2.0	2.5	1.6
15	10	4.6	9.1	7.9	16	17	77	65	38	1.8	2.4	2.3
16	6.9	4.5	6.0	8.2	13	18	41	51	61	2.8	2.7	4.3
17	7.2	4.2	6.0	7.9	16	17	30	43	46	2.9	3.8	2.9
18	5.9	4.0	28	7.7	14	18	25	128	29	2.6	4.1	2.1
19	5.1	4.0	17	12	13	22	23	67	24	5.4	3.8	2.1
20	5.3	4.6	12	8.5	13	30	22	51	21	7.5	6.8	1.9
21	5.0	4.7	9.9	7.6	47	49	19	45	19	4.1	5.9	1.9
22	4.9	4.1	8.9	6.5	21	40	20	39	17	3.2	2.7	1.9
23	5.1	3.6	6.7	8.0	18	26	21	34	15	8.9	1.5	1.7
24	5.8	4.2	e6.3	14	18	22	18	29	12	8.7	1.1	1.4
25	4.7	5.4	e6.2	19	15	20	25	24	9.8	4.3	1.3	1.4
26	4.1	10	e6.1	14	15	22	32	21	9.2	3.4	e1.1	1.8
27	5.4	6.0	e6.0	13	15	82	21	22	9.1	3.5	2.9	11
28	4.8	4.7	e5.9	14	13	39	63	30	8.7	4.2	2.6	7.3
29	4.8	4.6	e5.8	16	---	29	74	27	7.2	4.0	12	3.5
30	4.9	4.9	e5.7	18	---	26	49	21	6.1	3.5	6.9	2.8
31	4.8	---	e5.6	16	---	24	---	34	---	3.1	5.0	---
TOTAL	193.8	148.4	219.1	293.8	482.2	816	893	1405	943.1	118.7	170.3	130.5
MEAN	6.25	4.95	7.07	9.48	17.2	26.3	29.8	45.3	31.4	3.83	5.49	4.35
MAX	20	10	28	19	47	82	77	134	196	8.9	33	17
MIN	4.1	3.6	3.7	5.3	9.0	11	18	19	6.1	1.8	1.1	1.2
CFSM	0.35	0.28	0.40	0.54	0.97	1.49	1.68	2.56	1.78	0.22	0.31	0.25
IN.	0.41	0.31	0.46	0.62	1.01	1.71	1.88	2.95	1.98	0.25	0.36	0.27

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

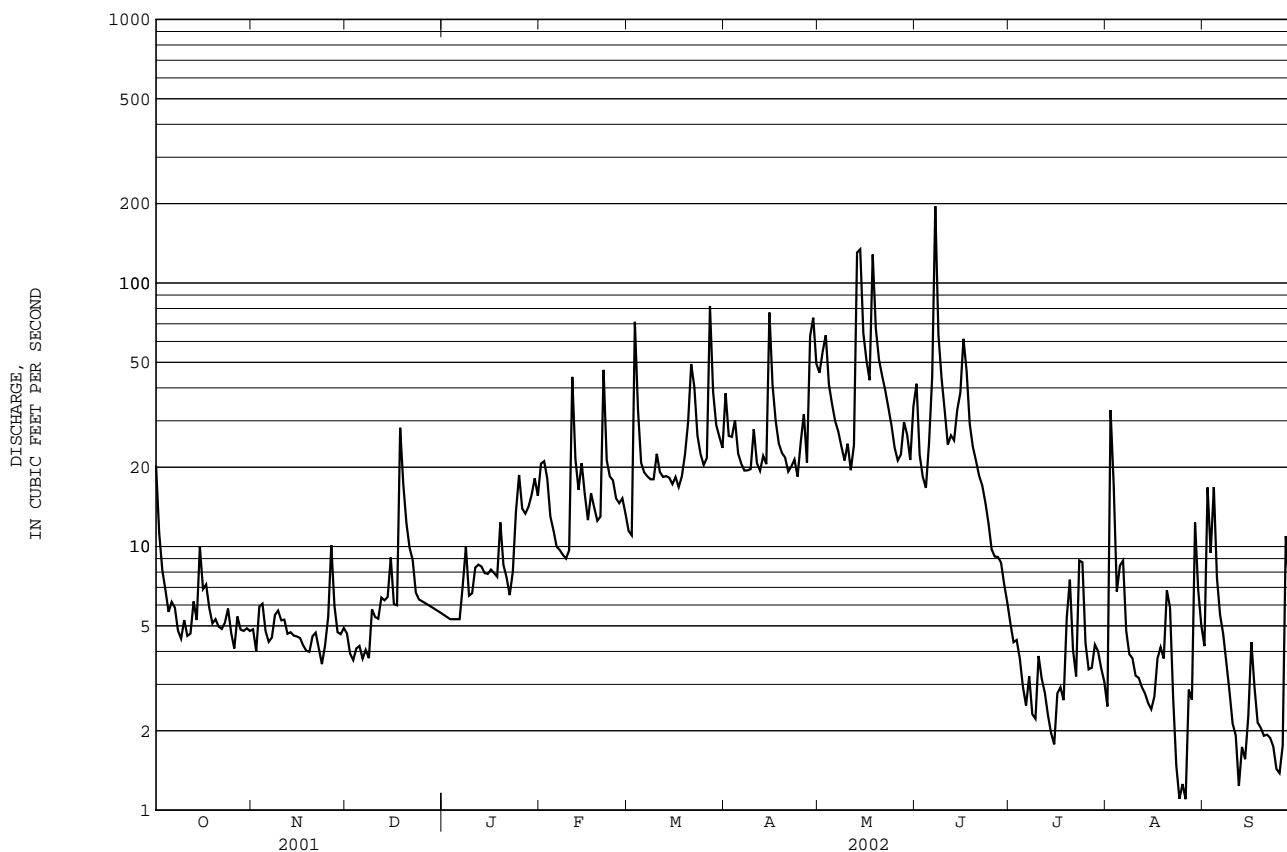
	MEAN	12.2	21.9	37.5	43.0	42.6	62.0	46.3	29.2	24.1	15.0	8.59	12.8
MAX	63.9	62.4	110	172	84.6	115	77.4	49.3	130	63.1	34.6	91.7	
(WY)	1976	1976	1974	1979	1970	1972	1973	1979	1972	1975	1969	1975	
MIN	1.84	2.53	7.07	7.65	15.4	26.3	14.8	9.88	3.38	1.46	1.35	1.24	
(WY)	1965	1965	2002	1966	1969	2002	1966	1965	1965	1966	1965	1964	

e Estimated.

## 01203600 NONEWAUG RIVER AT MINORTOWN, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1962 - 2002	
ANNUAL TOTAL	9617.71		5813.9			
ANNUAL MEAN	26.3		15.9		29.6	
HIGHEST ANNUAL MEAN					48.6	
LOWEST ANNUAL MEAN					11.3	
HIGHEST DAILY MEAN	442	Mar 22	196	Jun 7	1210	Dec 21 1973
LOWEST DAILY MEAN	0.50	Aug 10	1.1	Aug 24	0.45	Sep 2 1964
ANNUAL SEVEN-DAY MINIMUM	0.58	Aug 5	1.7	Sep 20	0.58	Aug 5 2001
MAXIMUM PEAK FLOW			a338	May 13	4590	Jun 17 2001
MAXIMUM PEAK STAGE			3.20	May 13	7.45	Jun 17 2001
INSTANTANEOUS LOW FLOW			0.60	Aug 26	0.45	Sep 2 1964
ANNUAL RUNOFF (CFSM)	1.49		0.90		1.67	
ANNUAL RUNOFF (INCHES)	20.21		12.22		22.71	
10 PERCENT EXCEEDS	72		34		64	
50 PERCENT EXCEEDS	10		8.3		15	
90 PERCENT EXCEEDS	1.4		2.8		2.7	

a Also occurred Jun. 7.



## HOUSATONIC RIVER BASIN

## 01203805 WEEKEEPEEMEE RIVER AT HOTCHKISSVILLE, CT

**LOCATION.**--Lat 41°33'26", long 73°12'57", Litchfield County, Hydrologic Unit 01100005, on downstream left bank at Jack's Bridge Rd., 500 ft upstream from mouth, and 1 mi north of Woodbury.

**DRAINAGE AREA.**--26.8 mi<sup>2</sup>.

**PERIOD of RECORD.**--October 1978 to September 1979; August 2000 to current year.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 249.55 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 513 ft<sup>3</sup>/s, Jun. 7, gage height, 4.17 ft; minimum discharge, 1.6 ft<sup>3</sup>/s, Aug. 27, 28, gage height, 1.42 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	5.0	7.4	e12	29	26	89	84	59	12	3.3	3.6
2	11	5.2	6.6	e12	e26	24	51	99	37	11	33	9.5
3	7.9	7.3	6.1	e11	e24	122	26	111	31	10	30	7.9
4	6.5	7.4	5.8	e11	e22	64	33	73	29	9.3	9.8	22
5	5.4	6.4	5.7	e11	e20	47	29	64	43	8.1	32	9.0
6	5.5	5.8	5.6	e10	e18	42	28	58	67	7.6	36	5.6
7	5.6	5.5	6.0	e10	e17	40	28	54	291	7.5	12	4.6
8	4.7	5.1	5.7	e10	e16	38	31	49	97	7.3	7.3	4.1
9	4.4	4.9	8.1	e10	e16	36	33	46	67	10	5.8	3.4
10	4.4	4.7	7.7	e10	e15	48	50	49	52	9.0	4.7	3.1
11	4.4	4.5	7.8	e12	63	39	40	40	44	6.4	4.2	3.0
12	4.4	4.1	8.8	e15	40	36	38	47	56	5.4	3.5	2.8
13	4.3	3.9	8.9	e14	e31	34	41	196	56	4.9	3.3	2.7
14	4.6	4.4	9.6	e13	e27	34	39	214	63	4.7	3.2	2.7
15	9.0	4.4	13	e12	e25	32	117	109	70	4.5	4.4	3.1
16	7.1	4.5	8.6	e12	e23	36	65	83	111	4.3	4.7	6.0
17	7.1	4.2	8.1	e11	e22	33	52	71	84	3.8	4.1	4.6
18	7.2	4.1	37	e11	e21	34	46	194	55	3.6	3.3	3.7
19	6.3	4.8	25	e11	e21	40	45	114	49	5.8	3.0	3.4
20	5.7	5.2	19	e10	e20	52	46	88	45	10	5.3	3.2
21	5.5	5.5	e15	e10	70	76	40	76	36	6.5	4.1	3.1
22	5.4	5.1	e13	e10	42	70	40	67	31	4.9	2.2	3.1
23	5.4	6.3	e12	e10	34	54	41	60	28	15	2.0	3.1
24	5.5	7.6	e35	23	29	49	37	54	24	20	2.1	3.7
25	5.5	7.6	e25	26	28	45	44	47	20	7.7	2.7	3.1
26	5.4	12	e19	21	28	46	56	45	19	6.1	2.2	3.6
27	5.3	8.5	e17	20	28	136	41	45	19	5.7	1.8	15
28	5.0	7.4	e16	21	26	93	102	48	18	5.4	1.7	13
29	4.9	6.9	e15	23	---	85	122	46	15	5.0	13	7.5
30	5.0	7.3	e14	27	---	81	87	40	13	4.2	8.9	6.3
31	4.7	---	e13	24	---	83	---	45	---	3.7	4.6	---
TOTAL	192.1	175.6	404.5	443	781	1675	1537	2416	1629	229.4	258.2	169.5
MEAN	6.20	5.85	13.0	14.3	27.9	54.0	51.2	77.9	54.3	7.40	8.33	5.65
MAX	19	12	37	27	70	136	122	214	291	20	36	22
MIN	4.3	3.9	5.6	10	15	24	26	40	13	3.6	1.7	2.7
CFSM	0.23	0.22	0.49	0.53	1.04	2.02	1.91	2.91	2.03	0.28	0.31	0.21
IN.	0.27	0.24	0.56	0.61	1.08	2.33	2.13	3.35	2.26	0.32	0.36	0.24

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2002, BY WATER YEAR (WY)

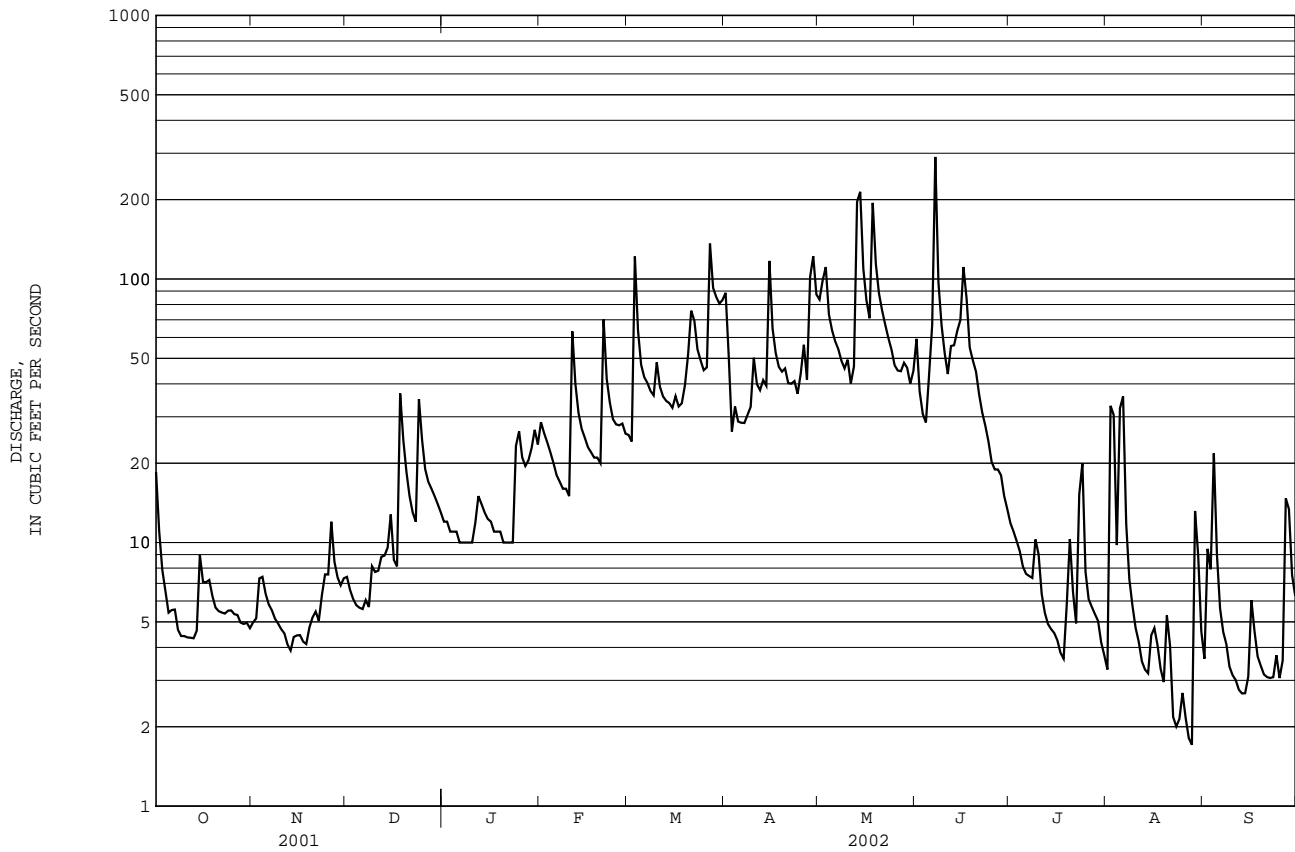
	MEAN	7.00	11.6	32.1	79.7	51.7	121	84.6	64.6	48.9	8.33	7.83	11.8
MAX	8.95	20.9	48.1	187	81.9	168	104	88.5	67.8	12.6	10.1	17.8	
(WY)	2001	2001	2001	1979	1979	1979	1979	1979	2001	2001	1979	1979	
MIN	5.85	5.85	13.0	14.3	27.9	54.0	51.2	27.4	24.6	5.00	5.10	5.65	
(WY)	1979	2002	2002	2002	2002	2002	2002	2001	1979	1979	2001	2002	

e Estimated.

## 01203805 WEEKEPEEMEE RIVER AT HOTCHKISSVILLE, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1979 - 2002	
ANNUAL TOTAL	14333.7		9910.3			
ANNUAL MEAN	39.3		27.2			
HIGHEST ANNUAL MEAN					44.1	
LOWEST ANNUAL MEAN					61.4	1979
HIGHEST DAILY MEAN	680	Jun 17	291	Jun 7	27.2	2002
LOWEST DAILY MEAN	1.9	Aug 9	1.7	Aug 28	1330	Jan 25 1979
ANNUAL SEVEN-DAY MINIMUM	2.1	Aug 5	2.1	Aug 22	0.60	Aug 9 1979
MAXIMUM PEAK FLOW			513	Jun 7	1.2	Aug 3 1979
MAXIMUM PEAK STAGE			4.17	Jun 7	3200	Jun 17 2001
INSTANTANEOUS LOW FLOW			a1.6	Aug 27	8.10	Jun 8 2001
ANNUAL RUNOFF (CFSM)	1.47		1.01		1.6	Aug 27 2002
ANNUAL RUNOFF (INCHES)	19.90		13.76		1.65	
10 PERCENT EXCEEDS	94		64		22.36	
50 PERCENT EXCEEDS	19		13		92	
90 PERCENT EXCEEDS	3.8		4.1		20	
					3.7	

a Also occurred Aug. 28.



## 01204000 POMPERAUG RIVER AT SOUTHBURY, CT

**LOCATION.**--Lat 41°28'50", long 73°13'30", New Haven County, Hydrologic Unit 01100005, on right bank 200 ft upstream from bridge on Poverty Rd., 800 ft downstream from Bullet Hill Brook, 0.6 mi west of Southbury, and 5.8 mi upstream from mouth.

**DRAINAGE AREA.**--75.1 mi<sup>2</sup>.

PERIOD of RECORD.--Discharge: June 1932 to current year.

Water-quality records: Water years 1961, 1965-74.

Daily water temperature: Water years 1961, 1967.

Daily specific conductance: Water years 1960-61.

Daily pH: Water years 1960-61.

Daily iron: Water years 1960-61.  
**REVISED RECORDS.**--WSP 851: 1934(M), 1936(M). WSP 1201: 1933-34, 1935(M), 1937(M). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 165.60 ft above sea level, (levels by Corps of Engineers). Satellite telemetry at station.

**REMARKS.**---No estimated daily discharges. Records good. Flow regulated by Lockwood Reservoir and occasionally at low flow by mill upstream. Diversion for municipal supply of town of Watertown.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
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No peak greater than base discharge.

Minimum discharge, 8.1 ft<sup>3</sup>/s, Aug. 27, gage height, 2.21 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	16	23	26	57	50	139	206	160	32	11	15
2	47	16	21	25	80	49	115	178	92	29	75	41
3	33	18	19	23	50	253	109	242	72	28	108	37
4	27	22	19	23	49	146	125	154	64	25	34	58
5	24	20	18	23	39	102	101	131	95	22	25	33
6	22	18	18	24	39	90	94	117	128	20	67	21
7	22	17	19	28	39	83	86	111	730	19	28	17
8	20	18	19	26	38	76	82	101	286	19	20	16
9	18	18	25	26	37	73	82	93	180	21	18	14
10	18	17	26	27	37	96	103	98	137	22	16	13
11	17	17	24	30	129	80	87	82	112	19	15	12
12	17	17	28	34	80	76	79	85	118	16	13	12
13	17	17	26	33	64	72	85	380	140	15	12	12
14	18	17	28	32	47	74	84	591	127	15	12	11
15	27	17	37	30	49	67	225	280	163	14	11	20
16	27	17	29	32	52	71	145	199	222	13	12	23
17	24	17	27	31	55	67	112	164	231	13	11	17
18	22	16	81	30	55	67	98	493	142	12	11	14
19	20	17	63	25	46	78	87	328	128	17	10	12
20	21	17	45	29	46	106	93	234	118	26	13	12
21	19	20	40	28	135	152	81	196	91	19	14	11
22	17	19	36	28	91	148	77	166	76	16	12	11
23	17	18	31	29	72	109	84	145	68	22	9.8	10
24	19	21	76	42	63	98	74	129	60	43	9.9	10
25	18	23	61	61	59	88	80	113	53	21	9.9	9.8
26	17	35	47	50	56	88	124	101	49	16	9.5	11
27	17	31	38	46	57	267	88	99	49	15	8.7	38
28	17	27	35	47	56	159	177	118	46	15	9.6	37
29	19	22	34	49	---	125	278	113	40	16	28	24
30	19	23	30	57	---	114	181	96	36	14	31	18
31	16	---	26	54	---	103	---	95	---	12	18	---
TOTAL	694	588	1049	1048	1677	3227	3375	5638	4013	606	682.4	589.8
MEAN	22.4	19.6	33.8	33.8	59.9	104	112	182	134	19.5	22.0	19.7
MAX	58	35	81	61	135	267	278	591	730	43	108	58
MIN	16	16	18	23	37	49	74	82	36	12	8.7	9.8
CFSM	0.30	0.26	0.45	0.45	0.80	1.39	1.50	2.42	1.78	0.26	0.29	0.26
IN.	0.34	0.29	0.52	0.52	0.83	1.60	1.67	2.79	1.99	0.30	0.34	0.26

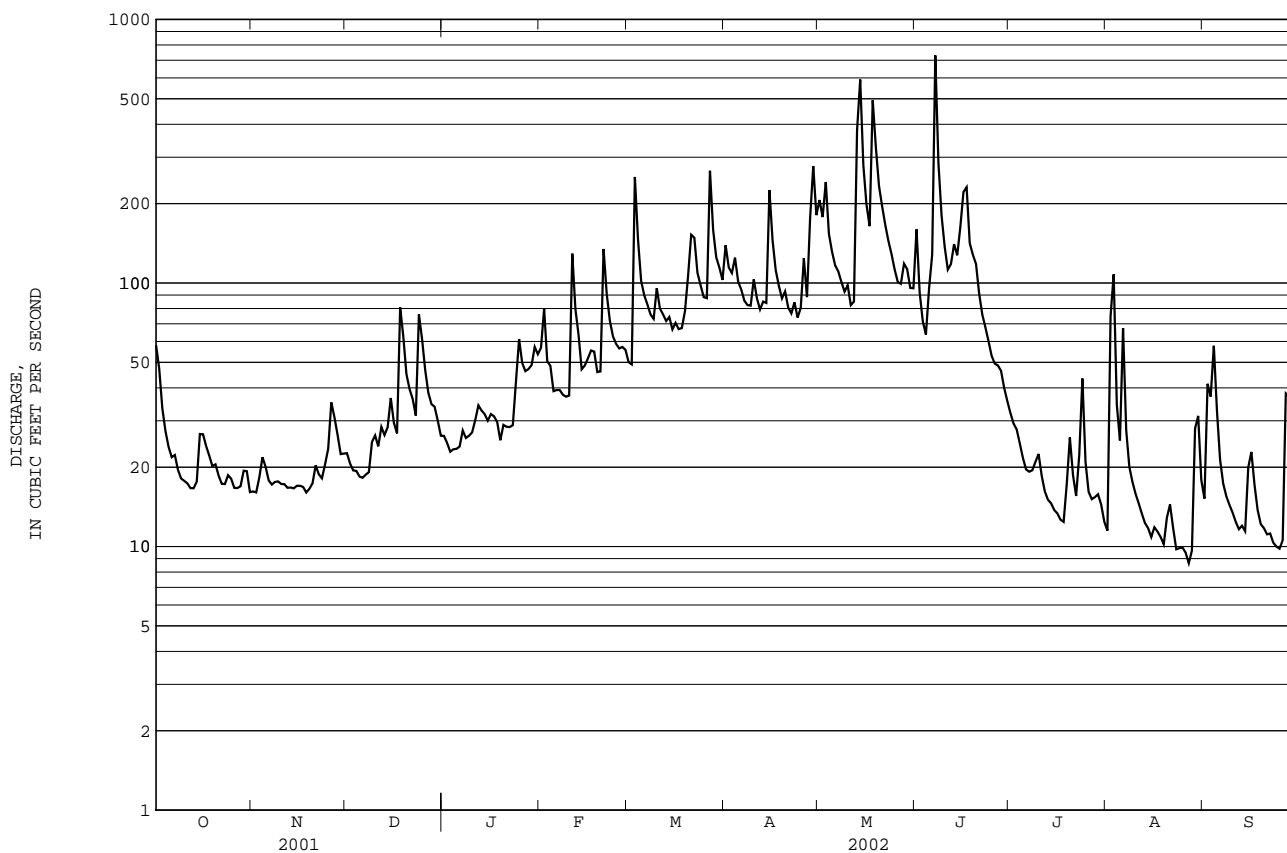
## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2002, BY WATER YEAR (WY)

MEAN	73.5	118	150	163	162	258	232	148	94.6	53.5	53.5	52.5
MAX	625	468	415	525	366	557	693	476	493	272	578	304
(WY)	1956	1956	1997	1979	1970	1936	1987	1989	1982	1938	1955	1938
MIN	10.4	13.6	22.1	17.5	44.6	104	61.9	40.3	18.6	9.56	5.90	7.66
(WY)	1936	1965	1936	1981	1936	2002	1985	1941	1957	1957	1999	1953

## 01204000 POMPERAUG RIVER AT SOUTHBURY, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1933 - 2002	
ANNUAL TOTAL	38311.9		23187.2		130	
ANNUAL MEAN	105		63.5		208	
HIGHEST ANNUAL MEAN					53.8	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	1670	Mar 22	730	Jun 7	9510	Aug 19 1955
LOWEST DAILY MEAN	9.4	Aug 8	8.7	Aug 27	3.3	Aug 30 1966
ANNUAL SEVEN-DAY MINIMUM	10	Aug 4	9.9	Aug 22	3.9	Sep 9 1977
MAXIMUM PEAK FLOW			1050	Jun 7	<sup>a</sup> 29400	Aug 19 1955
MAXIMUM PEAK STAGE			5.97	Jun 7	<sup>b</sup> 21.80	Aug 19 1955
INSTANTANEOUS LOW FLOW			8.1	Aug 27	<sup>c</sup> 2.5	Aug 30 1966
ANNUAL RUNOFF (CFSM)	1.40		0.85		1.73	
ANNUAL RUNOFF (INCHES)	18.98		11.49		23.45	
10 PERCENT EXCEEDS	265		138		274	
50 PERCENT EXCEEDS	53		34		79	
90 PERCENT EXCEEDS	16		14		16	

- <sup>a</sup> From rating curve extended above 1,200 ft<sup>3</sup>/s by computation of peak flow over dam at gage height 16.0 ft and by slope area measurement of peak flow.  
<sup>b</sup> From floodmarks.  
<sup>c</sup> Also occurred on Aug. 31, 1966.



## HOUSATONIC RIVER BASIN

## 01205500 HOUSATONIC RIVER AT STEVENSON, CT

**LOCATION.**--Lat 41°23'02", long 73°10'05", New Haven County, Hydrologic Unit 01100005, on left bank, 0.2 mi downstream from dam of Connecticut Light and Power Company at Stevenson, Fairfield County, 0.2 mi upstream from Eightmile Brook, and at mile 19.2.

**DRAINAGE AREA.**--1,544 mi<sup>2</sup>.

## WATER-DISCHARGE RECORD

**PERIOD of RECORD.**--August 1928 to current year.

**REVISED RECORDS.**--WSP 711: 1929(M). WSP 1231: 1951. WSP 1301: 1933-34(M), 1936-37. WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 24.98 ft above sea level (levels by Corps of Engineers). Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--No estimated daily discharges. Records good. Ordinary flow completely regulated by Stevenson Hydroelectric Plant. Flow regulated by Lake Candlewood, Lake Lillinonah, Lake Zoar, Cairns and Shepaug Reservoirs, and by diversion out of basin at Shepaug Reservoir. High flows affected by flood control in the Blackberry River Basin for 20.5 mi<sup>2</sup>, but do not appreciably affect monthly runoff.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 10,500 ft<sup>3</sup>/s, June 7, gage height, 9.72 ft; minimum discharge, 59 ft<sup>3</sup>/s, Nov. 9, gage height, 0.75 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	811	816	99	665	1250	1450	3020	3980	2250	1630	1330	113
2	1780	107	97	821	852	97	2940	3330	2300	1390	105	117
3	823	103	1430	1010	944	3070	3280	3690	3310	1590	108	1620
4	996	93	645	920	1810	2560	3120	3230	2210	1440	108	2190
5	827	822	100	98	2660	2090	2330	104	2350	805	2580	114
6	105	95	1350	630	1610	2120	2640	2970	3050	105	106	1300
7	103	86	100	97	1610	2220	1550	2790	8830	103	103	108
8	602	82	98	1200	885	1600	2090	1340	9030	863	104	105
9	1370	1140	999	824	95	105	1680	1850	7290	810	1290	873
10	93	96	837	830	95	1120	1880	2140	5070	106	106	105
11	95	91	633	842	1270	2160	1900	1900	3610	101	104	102
12	1030	88	636	839	2430	1700	2530	1610	3380	1260	107	97
13	109	842	110	96	2170	1790	1570	3730	4100	104	151	1130
14	104	114	640	668	1550	1810	969	7120	3080	102	629	103
15	100	97	105	993	816	1740	2500	6910	3130	101	1310	104
16	1270	98	820	96	94	105	3510	5870	2860	1380	107	721
17	88	836	1400	1000	776	984	3220	4730	3560	104	106	106
18	1320	100	108	990	92	1720	2260	5290	3340	1320	106	104
19	1930	98	1610	642	1930	1470	2230	7030	2310	108	880	103
20	3510	97	1600	639	461	1600	1770	5610	3550	1270	109	1320
21	95	1250	1580	656	716	1560	565	4400	2360	106	108	109
22	828	100	1020	100	1960	2310	2030	4220	1050	1850	108	107
23	105	98	1220	840	1390	1070	2120	3790	1340	1410	770	105
24	1300	97	893	916	827	1680	2080	3200	2830	108	109	1420
25	101	1330	1060	1680	2400	1870	2040	2760	1590	108	105	106
26	102	98	1680	1550	1120	1920	3220	2010	1820	2080	103	105
27	110	834	1220	113	1330	2710	1700	2130	2580	107	876	1150
28	804	98	1220	1580	1600	1650	2680	2590	1570	105	106	106
29	108	1400	487	1590	---	2720	3240	3100	108	1350	104	103
30	105	99	97	2870	---	3030	4050	1860	106	106	1800	102
31	103	---	1170	3730	---	1610	---	3100	---	104	114	---
TOTAL	20827	11305	25064	29525	34743	53641	70714	108384	93964	22126	13852	13948
MEAN	672	377	809	952	1241	1730	2357	3496	3132	714	447	465
MAX	3510	1400	1680	3730	2660	3070	4050	7120	9030	2080	2580	2190
MIN	88	82	97	96	92	97	565	104	106	101	103	97

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	MEAN	1464	2240	2836	2994	2963	4778	5270	3278	2224	1291	1119	1117
MAX	8810	8786	8384	9441	6869	12960	11150	8627	7013	4923	8294	8705	
(WY)	1956	1956	1997	1949	1976	1936	1983	1989	1972	1938	1955	1938	
MIN	259	258	726	356	800	1730	1272	1092	670	294	280	213	
(WY)	1965	1979	1965	1981	1980	2002	1985	1986	1965	1962	1999	1964	



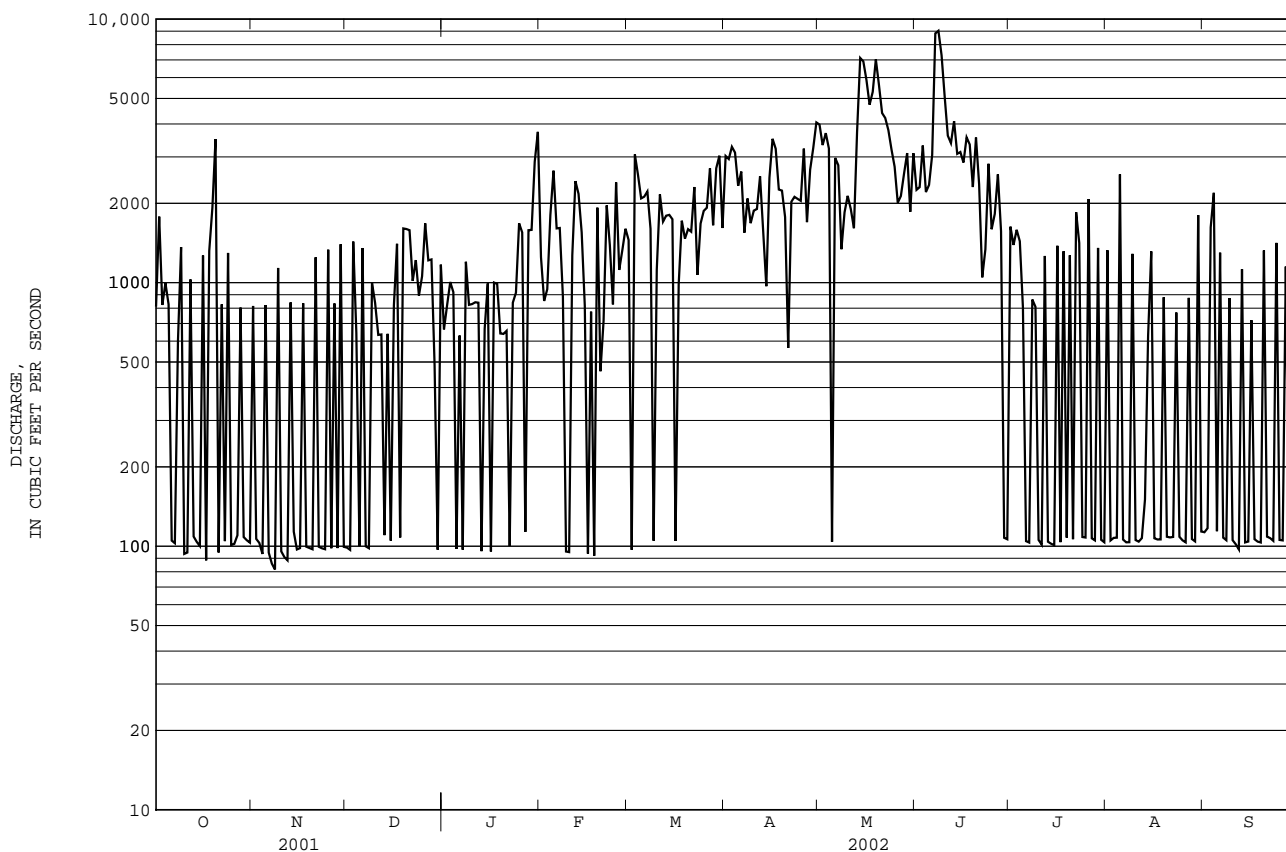
## 01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	761790		498093		2628	
ANNUAL MEAN	2087		1365		3956	
HIGHEST ANNUAL MEAN					1938	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	13100	Apr 11	9030	Jun 8	62400	Oct 16 1955
LOWEST DAILY MEAN	82	Nov 8	82	Nov 8	0.00	Oct 12 1930
ANNUAL SEVEN-DAY MINIMUM	185	Sep 7	198	Nov 2	56	Aug 13 1984
MAXIMUM PEAK FLOW			10500	Jun 7	<b>a</b> 75800	Oct 16 1955
MAXIMUM PEAK STAGE			9.72	Jun 7	<b>b</b> 24.50	Oct 16 1955
INSTANTANEOUS LOW FLOW			59	Nov 9	<b>c</b>	
10 PERCENT EXCEEDS	5760		3120		5880	
50 PERCENT EXCEEDS	1350		1050		1840	
90 PERCENT EXCEEDS	103		100		230	

**a** From rating curve extended above 35,000 ft<sup>3</sup>/s, on basis of computation of peak flow at Stevenson and Derby Dams and slope-area measurement at gage-heights 21.5 and 23.5 ft.

**b** From floodmarks.

**c** Practically no flow at times, result of regulation.



## HOUSATONIC RIVER BASIN

## 01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1952-53, 1955-56, 1959, 1961, 1963, 1968 to current year.

## PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1974 to September 1981.

WATER TEMPERATURES: November 1974 to September 1981.

## EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 390 microsiemens Sept. 14, 1977; minimum recorded, 46 microsiemens Mar. 25, 1980.

WATER TEMPERATURES: Maximum recorded, 30.5°C Aug. 3, 6-9, 1976; minimum, 0.0°C many days during the winter period.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 15...	1100	97	309	7.6	9.5	11.5	1.7	10.3	94	4k	2k	120	28.8	
JAN 14...	1515	92	329	7.7	16.0	3.5	2.6	16.3	123	3k	<1k	120	30.3	
MAY 29...	1030	6020	216	7.6	20.5	14.0	1.9	9.5	91	35	21	83	21.0	
JUL 17...	1400	103	240	8.0	28.0	26.5	1.1	9.8	122	5k	7k	91	22.8	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED TOTAL (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SOLVED TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 15...	11.2	17.3	2.58	0	122	101	13.0	27.4	E.1	1.23	172	178	.008	
JAN 14...	11.6	17.3	2.53	4	112	99	13.7	29.4	.1	.31	186	186	.009	
MAY 29...	7.51	10.2	1.27	0	83	68	9.3	17.1	<.1	4.21	122	118	E.005	
JUL 17...	8.27	10.8	1.39	0	99	81	8.6	17.8	E.1	2.12	134	142	.009	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, PHOS-PHORUS TOTAL (MG/L AS P) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
NOV 15...	.51	.06	.34	.40	.33	.91	.018	E.004	<.02	2	.12	14	<.06	
JAN 14...	.65	.11	.40	.51	.30	1.2	.026	.008	<.02	1	.09	15	<.06	
MAY 29...	.28	E.02	--	.33	.22	.62	.031	.010	<.02	7	.06	12	<.06	
JUL 17...	.26	<.04	--	.34	.28	.60	.014	.007	<.02	4	.11	13	<.06	
Date		CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 15...	<.04	<.8	.09	.8	E7	<.08	2.4	.7	.11	<1	2	.49	4.2	
JAN 14...	<.04	<.8	.11	1.0	E9	<.08	7.5	.8	.81	<1	1	.52	3.8	
MAY 29...	<.04	<.8	.07	.9	32	E.04	6.3	.3	.15	<1	<1	.24	4.2	
JUL 17...	<.04	<.8	.10	.8	12	<.08	10.7	.5	1.00	<1	1	.29	--	

Value qualifier codes used in this report:

k -- Counts outside acceptable range

## Science Challenge

What percentage of the Earth's total water supply is drinkable, fresh water?

Find more earth science information on our website at <http://www.usgs.gov>

Drinkable water accounts for less than 3 percent of the Earth's total supply.

## HOUSATONIC RIVER BASIN

## 01206900 NAUGATUCK RIVER AT THOMASTON, CT

**LOCATION.**--Lat 41°40'25", long 73°04'12", Litchfield County, Hydrologic Unit 01100005, on left bank at downstream side of bridge on U.S. Rts. 6 and 202 at Thomaston, 1.5 mi downstream from Thomaston Reservoir, 2.5 mi upstream from Branch Brook, and at mile 29.5.

**DRAINAGE AREA.**--99.8 mi<sup>2</sup>.

PERIOD of RECORD.--October 1959 to current year.

REVISED RECORDS.--WDR CT-76-1: 1975. WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 354.39 ft above sea level. Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Slight diurnal fluctuation at low flow.

Flow regulated by Thomaston, Hall Meadow Brook and East Branch Detention Reservoirs, and Lake Winchester.

**EXTREMES OUTSIDE PERIOD OF RECORD**--Flood of Aug. 19, 1955, reached a stage of 27.0 ft, from floodmarks by Corps of Engineers, discharge, 53,400 ft<sup>3</sup>/s, from indirect measurements of peak flow on Naugatuck River, 71.9 mi<sup>2</sup>, and Leadmine Brook, 24.0 mi<sup>2</sup>, adjusted for intervening drainage area.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 2,190 ft<sup>3</sup>/s, June 7, gage height, 5.14 ft; minimum discharge, 6.8 ft<sup>3</sup>/s, Aug. 19, 20, gage height, 1.49 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	30	21	e36	89	64	200	252	576	46	22	27
2	59	32	20	e35	114	61	167	255	293	42	26	39
3	51	32	18	e34	e63	340	150	294	147	37	83	35
4	42	30	17	36	e58	269	174	209	115	33	45	46
5	36	29	18	35	e55	149	141	176	142	30	37	33
6	39	28	17	36	e54	115	134	152	382	28	29	23
7	38	19	16	41	e53	103	121	138	1340	26	23	18
8	32	17	15	41	52	94	117	124	1700	25	20	15
9	30	16	21	42	51	89	109	111	540	24	17	16
10	29	16	24	41	50	180	141	112	277	33	15	13
11	28	15	22	48	163	134	116	97	208	25	14	12
12	28	14	23	52	99	109	105	109	185	22	13	11
13	33	13	25	51	82	99	113	312	205	19	11	9.6
14	33	13	29	48	63	94	115	1030	218	17	10	8.5
15	54	14	47	46	62	89	390	599	264	17	9.5	9.4
16	41	13	34	45	60	108	252	309	226	16	9.0	36
17	40	13	31	44	64	101	175	244	204	15	9.2	25
18	37	13	125	43	66	99	157	447	159	14	8.6	17
19	35	13	84	37	59	104	132	579	130	37	8.7	15
20	34	15	60	45	58	128	126	418	111	192	52	12
21	34	18	56	42	197	191	114	261	95	104	26	11
22	33	16	58	42	136	216	111	221	84	61	17	11
23	32	14	52	42	105	151	131	194	77	90	13	13
24	31	15	107	53	87	141	110	172	72	92	14	13
25	34	22	e75	71	78	142	119	158	62	50	15	11
26	31	37	e63	67	74	142	201	144	57	38	13	12
27	31	26	e53	63	73	438	143	146	63	32	11	52
28	30	21	e48	64	72	334	299	132	64	29	9.5	83
29	30	19	e45	71	---	211	518	124	61	34	64	56
30	31	20	e42	86	---	188	330	114	50	28	57	45
31	32	---	e38	85	---	167	---	185	---	25	35	---
TOTAL	1139	593	1304	1522	2237	4850	5211	7818	8107	1281	736.5	727.5
MEAN	36.7	19.8	42.1	49.1	79.9	156	174	252	270	41.3	23.8	24.2
MAX	71	37	125	86	197	438	518	1030	1700	192	83	83
MIN	28	13	15	34	50	61	105	97	50	14	8.6	8.5

STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

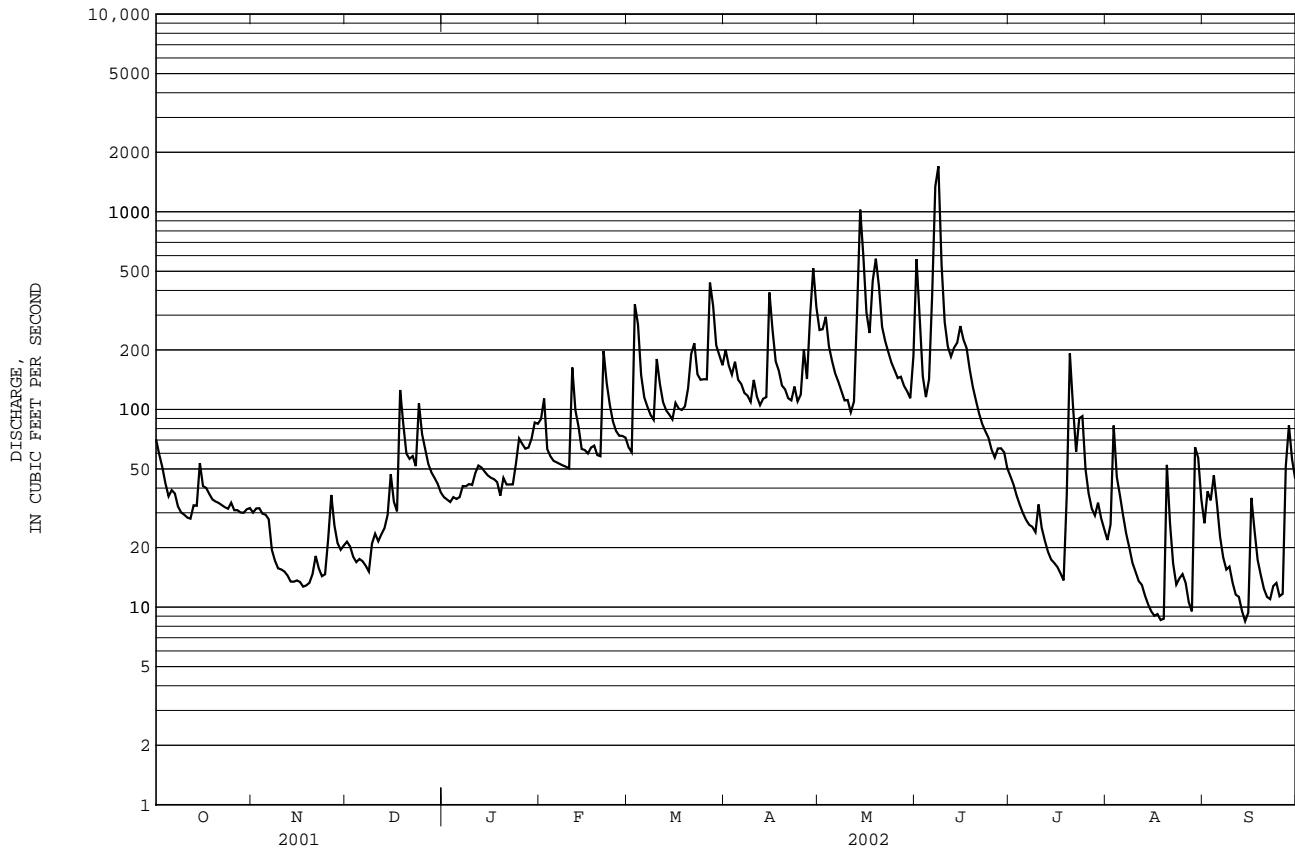
MEAN	126	182	227	232	237	395	387	224	158	79.9	74.1	74.7
MAX	525	510	709	757	776	785	966	721	658	331	429	472
(WY)	1997	1996	1974	1979	1981	1979	1987	1989	1982	1972	1969	1975
MIN	21.1	19.8	42.1	31.1	57.0	156	103	75.0	33.8	18.4	16.6	13.8
(WY)	1965	2002	2002	1981	1980	2002	1985	1965	1964	1962	1999	1964

e Estimated.

## 01206900 NAUGATUCK RIVER AT THOMASTON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1961 - 2002	
ANNUAL TOTAL	54646		35526.0		199	
ANNUAL MEAN	150		97.3		300	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					76.6	
HIGHEST DAILY MEAN	1410	Mar 24	1700	Jun 8	3550	Mar 10 1979
LOWEST DAILY MEAN	11	Sep 7	8.5	Sep 14	8.4	Sep 14 1964
ANNUAL SEVEN-DAY MINIMUM	12	Sep 3	9.4	Aug 13	9.4	Aug 13 2002
MAXIMUM PEAK FLOW			2190	Jun 7	5140	Mar 31 1960
MAXIMUM PEAK STAGE			5.14	Jun 7	6.25	Mar 31 1960
INSTANTANEOUS LOW FLOW			a6.8	Aug 19	5.6	Sep 1 1999
10 PERCENT EXCEEDS	331		206		434	
50 PERCENT EXCEEDS	70		51		112	
90 PERCENT EXCEEDS	16		14		26	

a Also occurred Aug. 20.



## HOUSATONIC RIVER BASIN

## 01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT

**LOCATION.**--Lat 41°36'55", long 73°03'30", New Haven County, Hydrologic Unit 01100005, at Frost Bridge 1.8 mi north of Waterville and 2.4 mi south of Branch Brook.

**DRAINAGE AREA.**--136 mi<sup>2</sup>.

**PERIOD of RECORD.**--October 5, 1967, published as "near Waterbury," October 1980 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 05...	1515	44	286	7.6	6.5	11.0	1.8	11.0	101	115	14k	49	13.4	
JAN 16...	1610	56	313	7.6	3.5	1.5	1.6	13.8	99	236	58	51	14.1	
MAR 20...	1430	175	273	7.1	1.5	5.0	1.1	12.5	98	60	42	41	10.9	
MAY 02...	1515	370	153	7.4	10.0	11.0	2.5	10.2	95	40k	16k	30	7.69	
JUN 11...	1325	292	146	7.0	32.5	20.0	2.5	8.5	96	88	36	28	7.37	
JUL 01...	1255	76	207	7.3	34.5	26.5	1.5	9.1	114	31	24	40	10.4	
AUG 12...	1315	26	320	8.2	35.0	28.0	2.1	10.1	131	224	28	47	12.8	
SEP 09...	1400	35	296	7.7	35.0	25.0	1.8	9.5	116	100	5k	41	11.0	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 05...	3.73	31.8	5.43	0	46	38	26.5	40.1	.2	1.47	154	158	.036	
JAN 16...	3.91	39.6	4.25	0	34	28	28.8	55.8	.2	5.63	178	180	.041	
MAR 20...	3.48	32.6	2.61	0	26	21	19.9	49.8	.1	5.38	148	148	.013	
MAY 02...	2.66	14.8	1.68	0	22	18	13.3	23.5	.1	5.13	92	94	.009	
JUN 11...	2.42	14.3	1.55	0	22	18	12.8	19.5	<.1	6.14	85	90	.014	
JUL 01...	3.29	22.4	2.78	0	31	25	14.3	32.4	.1	4.52	114	111	.014	
AUG 12...	3.71	41.0	5.29	0	38	31	33.5	48.3	.2	2.24	180	181	.037	
SEP 09...	3.25	37.6	4.75	0	35	29	27.4	43.4	.3	2.41	159	144	.024	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
NOV 05...	1.46	E.04	--	.55	.48	2.0	.163	.134	.10	14	.10	17	<.06	
JAN 16...	1.33	.06	.48	.54	.53	1.9	.23	.21	.18	11	.12	17	<.06	
MAR 20...	.83	E.04	--	.36	.32	1.2	.104	.085	.07	16	.18	16	<.06	
MAY 02...	.46	.07	.38	.45	.36	.91	.060	.033	.03	20	.06	14	<.06	
JUN 11...	.47	.07	.34	.40	.37	.87	.064	.034	.02	24	.09	16	<.06	
JUL 01...	.62	<.04	--	.38	.31	1.0	.174	.145	.12	30	.13	15	<.06	
AUG 12...	1.10	E.03	--	.65	.47	1.8	.178	.145	.12	39	.14	13	<.06	
SEP 09...	1.20	E.02	--	.54	.47	1.7	.180	.156	.13	28	.19	14	<.06	

## 01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 05...	.14	2.0	.32	5.4	166	.41	26.7	1.1	13.7	<1	10	.09	4.9
JAN 16...	.17	1.8	.42	5.5	134	.32	36.5	2.6	12.1	<1	15	.09	3.5
MAR 20...	.09	.9	.32	3.3	118	.19	44.5	.5	8.62	<1	11	.07	3.3
MAY 02...	.07	E.8	.30	2.5	122	.15	41.5	.3	4.92	<1	9	.06	3.5
JUN 11...	.06	.8	.22	4.2	164	.33	54.2	.2	7.05	<1	7	.07	--
JUL 01...	.12	1.6	.31	3.9	167	.33	16.1	.8	9.16	<1	6	.08	4.4
AUG 12...	.20	1.6	.55	5.5	59	.20	16.6	2.0	14.6	<1	7	.13	4.9
SEP 09...	.14	1.5	.36	5.3	118	.35	12.2	1.3	15.1	<1	7	.11	4.4

Value qualifier codes used in this report:

k -- Counts outside acceptable range

## HOUSATONIC RIVER BASIN

## 01208370 NAUGATUCK RIVER BELOW FULLING MILL BROOK AT UNION CITY, CT

LOCATION.--Lat 41°30'06", long 73°02'55", New Haven County, Hydrologic Unit 01100005, at footbridge below Fulling Mill Brook, 0.1 mi south of Rt. 68 bridge.

DRAINAGE AREA.--215 mi<sup>2</sup>.

PERIOD of RECORD.--May 2002 to Sept. 30, 2002.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
MAY 02...	1020	563	203	7.2	9.0	11.0	2.1	10.5	96	420	112	37	9.84	
JUN 12...	1245	398	211	7.0	32.0	22.0	1.8	9.3	108	180	79	38	10.3	
JUL 02...	1215	126	331	8.0	35.0	27.5	1.2	11.6	149	108	12k	57	16.0	
AUG 13...	1145	64	431	7.8	34.0	27.5	1.7	10.8	137	73	23k	72	20.6	
SEP 10...	1250	62	439	8.8	--e	25.0	1.6	11.3	141	15	73	71	20.2	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
	MAY 02...	2.91	21.7	2.56	0	26	21	18.7	31.2	.2	5.82	110	118	.014
JUN 12...	3.03	23.7	2.79	0	27	22	19.1	31.6	.2	6.99	125	124	.009	
JUL 02...	4.14	37.7	4.45	0	44	36	29.9	49.2	.5	5.51	193	190	.008	
AUG 13...	4.97	54.8	6.99	0	54	44	42.5	66.3	.9	4.36	246	243	.012	
SEP 10...	4.92	54.0	7.81	0	59	48	45.8	63.1	.9	4.21	247	234	.020	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
	MAY 02...	.64	.06	.29	.35	.35	.98	.42	.40	.36	22	.15	14	<.06
JUN 12...	.84	<.04	--	.39	.33	1.2	.44	.45	.42	28	.12	15	<.06	
JUL 02...	1.25	<.04	--	.56	.43	1.8	.99	1.01	.97	33	.28	13	<.06	
AUG 13...	.66	<.04	--	.67	.55	1.3	.76	.74	.70	39	.32	12	<.06	
SEP 10...	1.37	<.04	--	.59	.49	2.0	1.43	1.42	1.38	43	.39	11	<.06	
Date		CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
	MAY 02...	.10	E.6	.27	5.3	131	.35	41.6	.9	5.97	<1	28	.05	4.0
JUN 12...	.09	E.5	.19	6.1	169	.35	34.9	1.5	5.28	<1	19	.06	4.2	
JUL 02...	.12	E.7	.30	9.9	94	.29	25.3	2.9	7.19	<1	18	.08	5.0	
AUG 13...	.25	E.8	.51	10.0	65	.39	30.8	5.6	10.6	<1	27	.07	5.0	
SEP 10...	.20	1.0	.36	9.2	87	.31	22.8	7.0	10.2	<1	26	.10	5.7	

Value qualifier codes used in this report:

k -- Counts outside acceptable range

Null value qualifier codes used in this report:

e -- Required equipment not functional/avail



## Science Challenge

What is the highest point above sea level in the United States?

Find more earth science information on our website at <http://www.usgs.gov>

Mt. McKinley, Alaska, at 20,320 feet above sea level.

## HOUSATONIC RIVER BASIN

## 01208500 NAUGATUCK RIVER AT BEACON FALLS, CT

**LOCATION.**--Lat 41°26'32", long 73°03'47", New Haven County, Hydrologic Unit 01100005, on left bank at downstream side of bridge on Bridge St. at Beacon Falls, 0.4 mi upstream from Bronson Brook, and at mile 10.1.

**DRAINAGE AREA.**--260 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--June 1918 to September 1924, September 1928 to September 1955, published as "near Naugatuck," October 1955 to current year.

**REVISED RECORDS.**--WSP 1171: 1918-24, 1928-49. WSP 1501: 1956 (P). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 117.28 ft above sea level. Prior to Oct. 1, 1955, water-stage recorder at site 2.5 mi upstream at datum 37.89 ft higher. Oct. 1, 1955, to Mar. 21, 1957, nonrecording gage at present site and datum. Telephone telemetry at station. Satellite telemetry at station.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris, and Wigwam Reservoirs, Northfield Brook, Hancock Brook, Hop Brook, and Black Rock Lakes, and during low flow, by industrial plants upstream. Flow increased by diversion from Shepaug Reservoir into Naugatuck River Basin. Town of Watertown diverts about 0.5 Mgal/d from Pomperaug River Basin into Naugatuck River about 10 mi upstream.

**EXTREMES OUTSIDE PERIOD of RECORD.**--Flood in November 1927 reached a stage of 14 ft, former site and datum, discharge, about 26,000 ft<sup>3</sup>/s.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 3,130 ft<sup>3</sup>/s, June 7, gage height, 6.42 ft; minimum discharge, 52 ft<sup>3</sup>/s, Aug. 19, 28, gage height, 1.00 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	341	106	101	112	266	192	544	715	924	159	86	98
2	249	107	94	108	312	182	471	618	640	150	249	456
3	186	126	89	107	236	968	515	766	362	141	293	221
4	159	114	92	106	215	705	562	553	297	130	156	385
5	139	111	94	107	184	413	436	471	386	120	129	193
6	135	100	95	109	170	324	384	411	682	113	117	131
7	124	96	97	143	168	297	352	376	2410	107	95	107
8	111	85	90	131	163	274	329	345	2340	107	86	95
9	104	83	127	129	159	261	325	312	1160	130	81	90
10	104	79	114	137	161	427	385	319	641	136	76	86
11	105	77	107	153	469	348	338	285	504	112	73	80
12	104	75	107	159	331	297	303	314	474	102	72	76
13	101	74	107	165	262	277	316	1130	469	98	71	74
14	103	77	126	154	202	272	323	2090	493	95	68	75
15	171	80	159	142	194	257	768	1300	646	95	65	206
16	148	81	132	142	193	278	661	750	833	97	64	251
17	129	77	120	142	224	277	456	605	720	89	70	153
18	120	73	345	137	217	280	379	1380	491	85	63	110
19	115	75	300	124	189	297	343	1240	477	163	62	94
20	113	87	195	126	186	403	321	914	452	307	114	86
21	111	83	163	131	436	549	297	670	338	236	121	82
22	110	82	151	135	374	603	290	579	290	168	83	80
23	108	79	139	142	294	433	327	511	259	250	73	88
24	108	82	299	182	248	375	292	447	242	297	71	76
25	108	98	262	218	227	357	323	400	216	160	79	76
26	104	180	206	207	222	370	494	360	214	127	68	84
27	97	127	177	197	223	1160	374	350	212	116	65	332
28	95	108	152	194	215	860	618	426	211	109	62	254
29	95	99	146	199	---	584	1060	386	192	107	321	186
30	98	100	133	222	---	510	842	343	173	102	214	145
31	102	---	119	231	---	457	---	371	---	91	122	---
TOTAL	3997	2821	4638	4691	6740	13287	13428	19737	17748	4299	3369	4470
MEAN	129	94.0	150	151	241	429	448	637	592	139	109	149
MAX	341	180	345	231	469	1160	1060	2090	2410	307	321	456
MIN	95	73	89	106	159	182	290	285	173	85	62	74

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002, BY WATER YEAR (WY)

	MEAN	317	473	572	610	609	992	957	604	408	242	248	239
MAX	2480	1890	1688	2307	1436	2227	2467	2098	1973	957	2920	1301	
(WY)	1956	1956	1997	1979	1981	1983	1983	1989	1982	1938	1955	1938	
MIN	55.3	63.9	113	118	204	429	273	225	122	72.6	72.0	68.2	
(WY)	1931	1932	1936	1981	1934	2002	1985	1941	1957	1966	1966	1931	

## 01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

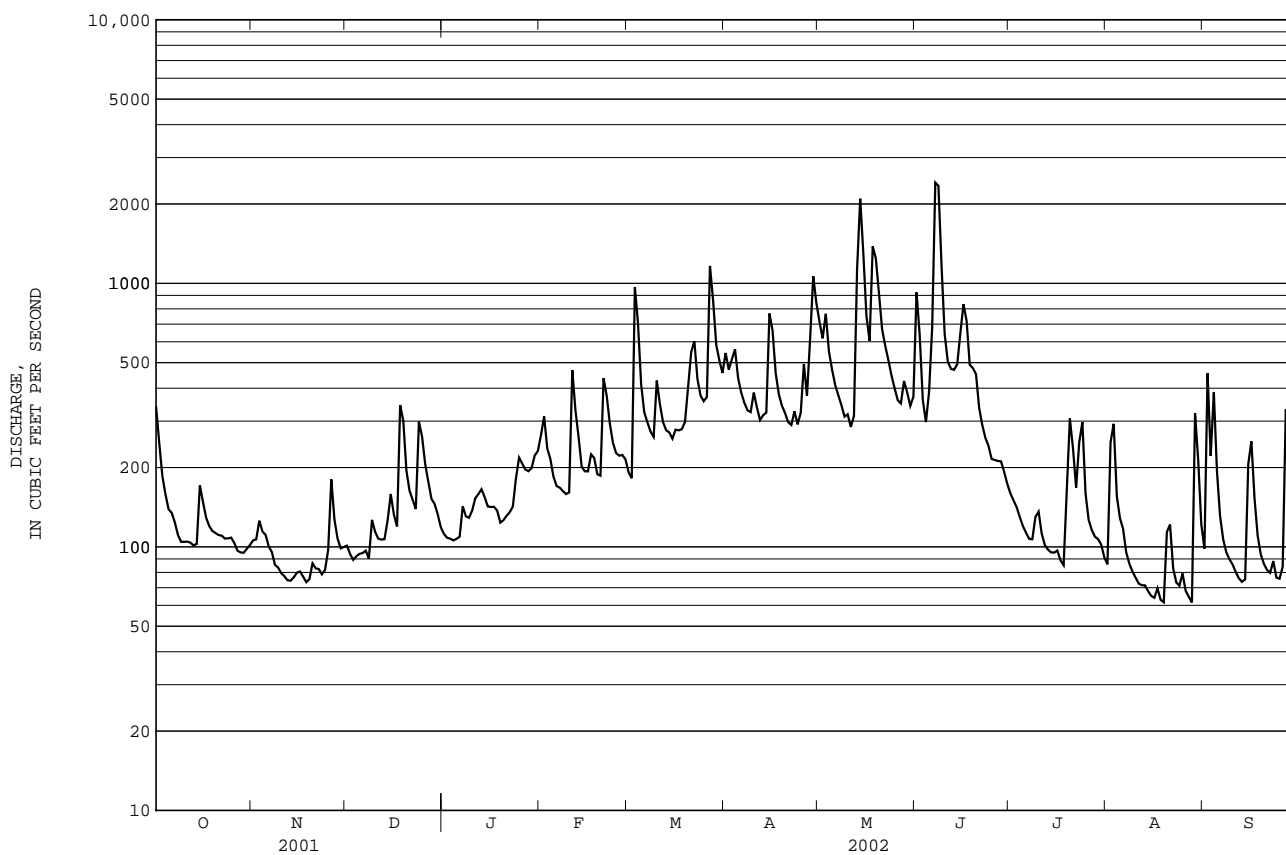
SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1928 - 2002	
ANNUAL TOTAL	162163		99225		522	
ANNUAL MEAN	444		272		830	
HIGHEST ANNUAL MEAN					237	
LOWEST ANNUAL MEAN					1973	
HIGHEST DAILY MEAN	4110	Mar 22	2410	Jun 7	56400	Aug 19 1955
LOWEST DAILY MEAN	68	Sep 9	62	Aug 19	<b>c</b> 40	Oct 5 1930
ANNUAL SEVEN-DAY MINIMUM	77	Nov 12	66	Aug 13	47	Jul 11 1971
MAXIMUM PEAK FLOW			3130	Jun 7	<b>a</b> 106000	Aug 19 1955
MAXIMUM PEAK STAGE			6.42	Jun 7	<b>b</b> 25.70	Aug 19 1955
INSTANTANEOUS LOW FLOW			<b>d</b> 52	Aug 19	24	Oct 21 1935
10 PERCENT EXCEEDS	1080		551		1120	
50 PERCENT EXCEEDS	243		170		322	
90 PERCENT EXCEEDS	83		82		105	

**a** From rating curve extended above 9,000 ft<sup>3</sup>/s, on basis of slope-area measurements of peak flow at gage height of 12.4 and 25.7 ft, use and datum then in use.

**b** From floodmarks.

**c** Also occurred on Oct. 12, 1930 and Sep. 7, 1936.

**d** Also occurred Aug. 28.



## HOUSATONIC RIVER BASIN

## 01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years 1952, 1953, 1958, published as "near Naugatuck," 1961, 1963, 1966, 1968, 1974 to current year.

## PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1965 to October 1967.

WATER TEMPERATURES: September 1965 to October 1967.

## EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,150 microsiemens July 8, 1966; minimum recorded, 100 microsiemens Apr. 2, 3, May 26, 1967.

WATER TEMPERATURES: Maximum, 30.5°C July 3, 1966, Apr. 5, 1967; minimum, 0.0°C on many days during winter periods.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 05...	1315	77	495	8.5	7.5	12.0	1.4	12.4	116	3600	46	58	16.4	
JAN 16...	1340	147	394	7.8	6.0	5.5	2.4	14.4	114	700	65	57	15.8	
MAR 20...	1220	334	312	7.5	3.5	6.0	2.9	12.9	103	3500	1080	47	12.9	
MAY 01...	1230	715	182	7.4	16.5	12.0	3.5	11.6	107	350k	76k	32	8.38	
JUN 12...	1010	439	216	7.4	31.0	21.0	3.2	9.0	103	580	129	38	10.3	
JUL 02...	0915	135	332	7.7	31.0	25.0	1.7	9.7	118	300k	20	57	16.3	
AUG 13...	1000	62	444	7.8	30.5	24.5	1.9	8.5	100	96	3k	75	21.3	
SEP 10...	0845	80	418	7.6	--	22.0	1.8	9.4	108	116	35	69	20.3	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
NOV 05...	4.10	70.5	6.33	0	63	53	46.4	79.0	.5	4.59	274	276	.031	
JAN 16...	4.35	50.9	5.36	0	37	30	31.3	71.8	.3	5.78	216	220	.022	
MAR 20...	3.64	39.5	3.25	0	29	24	26.1	55.8	.2	5.78	180	183	.009	
MAY 01...	2.59	18.6	2.29	0	21	17	15.1	27.9	.1	5.87	101	109	.011	
JUN 12...	2.99	22.6	2.69	0	26	21	18.2	33.2	.16	7.16	125	127	.015	
JUL 02...	4.07	38.7	4.16	0	43	35	28.9	51.7	.4	5.92	185	194	.021	
AUG 13...	5.17	55.5	6.93	0	59	48	42.8	67.9	.7	3.90	256	246	.023	
SEP 10...	4.52	49.8	6.66	0	54	44	39.7	63.9	.6	3.42	229	228	.040	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
NOV 05...	2.56	.04	.67	.71	.59	3.3	1.55	1.52	1.33	9	.28	10	<.06	
JAN 16...	1.94	.06	.41	.46	.41	2.4	1.08	1.07	1.02	17	.24	11	<.06	
MAR 20...	1.22	<.04	--	.34	.27	1.6	.59	.55	.55	19	.25	15	<.06	
MAY 01...	.58	.05	.36	.41	.32	.99	.30	.25	.23	26	.30	12	<.06	
JUN 12...	.83	.20	.37	.57	.51	1.4	.39	.38	.35	25	.13	15	<.06	
JUL 02...	1.74	<.04	--	.56	.41	2.3	.71	.68	.63	13	.31	15	<.06	
AUG 13...	1.34	E.02	--	.63	.57	2.0	.70	.66	.62	9	.34	15	<.06	
SEP 10...	1.96	<.04	--	.51	.42	2.5	.86	.86	.86	10	.38	13	<.06	

## 01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 05...	.13	.9	.29	8.7	175	.30	32.4	4.0	9.30	<1	27	.04	6.1
JAN 16...	.17	E.6	.37	6.9	159	.28	73.0	2.7	9.08	<1	29	.05	3.8
MAR 20...	.15	E.5	.30	5.4	155	.27	66.1	1.4	8.19	<1	29	.04	4.0
MAY 01...	.09	E.5	.19	4.6	127	.38	34.4	1.3	3.72	<1	19	.04	4.9
JUN 12...	.09	E.5	.19	6.4	208	.40	43.2	1.3	5.33	<1	20	.05	4.6
JUL 02...	.15	E.6	.29	9.3	179	.25	40.7	2.9	7.88	<1	24	.04	5.0
AUG 13...	.21	E.7	.36	9.4	189	.34	41.4	5.4	10.3	<1	27	.04	5.2
SEP 10...	.17	E.6	.29	8.5	181	.27	49.0	5.7	8.92	<1	25	.04	5.4

Value qualifier codes used in this report:

k -- Counts outside acceptable range

## HOUSATONIC RIVER BASIN

## 01208736 NAUGATUCK RIVER AT ANSONIA, CT

**LOCATION.**--Lat 41°19'50", long 73°04'47", New Haven County, Hydrologic Unit 01100005, at bridge on Division St., at Ansonia-Derby town line, and 1.2 mi upstream from Housatonic River.

**DRAINAGE AREA.**--309 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water years 1968, 1974, to current year.

**REMARKS.**--Stream tidal affected.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
NOV 05...	1115	283	462	7.6	9.5	13.0	8.7	11.2	107	3900k	4800k	62	18.0	
JAN 16...	1150	208	375	7.6	4.0	5.0	2.9	13.2	103	42000	9000	56	15.5	
MAR 20...	1030	--	304	7.4	3.0	7.5	1.1	12.2	101	11400	16600k	47	12.7	
MAY 01...	1000	--	166	7.1	17.0	10.5	8.2	11.3	102	11600	3130	29	7.72	
JUN 11...	1005	570	206	7.3	29.0	20.0	6.0	8.9	98	10800	2100	34	9.39	
JUL 01...	0955	199	321	7.7	35.0	25.5	1.9	7.8	95	7000	900	52	14.8	
AUG 12...	1015	89	395	7.6	34.5	26.5	3.3	8.1	100	28600k	2400	62	17.5	
SEP 09...	1050	90	350	7.5	30.0	23.5	3.8	8.1	95	838000	109000k	56	16.0	
Date	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	
	NOV 05...	4.20	62.9	6.66	0	57	48	47.2	73.1	.5	4.11	260	262	.053
	JAN 16...	4.24	47.6	5.27	0	42	35	30.4	67.1	.3	5.81	208	208	.028
	MAR 20...	3.62	38.1	3.75	0	39	32	23.5	51.7	.4	6.32	173	179	.009
	MAY 01...	2.24	15.8	2.22	0	22	18	13.4	22.4	.1	5.46	92	118	.017
	JUN 11...	2.65	18.4	2.18	0	23	19	15.2	27.4	E.1	7.12	107	113	.028
	JUL 01...	3.73	36.1	4.59	0	41	34	28.7	48.4	.4	5.64	176	177	.062
	AUG 12...	4.40	46.8	6.47	0	49	40	39.0	57.9	.6	3.86	216	220	.230
	SEP 09...	3.81	40.8	5.84	0	46	38	33.2	50.6	.4	4.69	182	180	.260
Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	
	NOV 05...	1.87	.12	1.0	1.2	.61	3.0	1.64	1.40	1.34	9	.32	10	<.06
	JAN 16...	1.77	.75	.61	1.4	1.2	3.1	.87	.80	.75	12	.21	11	<.06
	MAR 20...	1.19	.99	.63	1.6	1.4	2.8	.64	.56	.55	17	.32	12	<.06
	MAY 01...	.64	.81	.44	1.2	1.1	1.9	.33	.22	.20	20	.18	11	<.06
	JUN 11...	1.60	<.04	--	.51	.44	2.1	.19	.148	E.01	22	.15	14	<.06
	JUL 01...	1.29	.47	.57	1.0	.90	2.3	.71	.65	.63	22	.30	12	<.06
	AUG 12...	1.25	.27	.77	1.0	.77	2.3	.57	.50	.45	34	.40	9	<.06
	SEP 09...	1.52	.22	.68	.90	.67	2.4	.83	.80	.79	23	.32	10	<.06

## 01208736 NAUGATUCK RIVER AT ANSONIA, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 05...	.13	E.8	.40	13.0	84	.30	63.3	4.1	8.73	<1	20	.05	8.8
JAN 16...	.16	<.8	.33	11.6	122	.29	80.8	2.7	8.13	<1	26	.06	6.9
MAR 20...	.09	<.8	.30	7.4	158	.34	72.2	1.4	6.17	<1	25	.04	4.9
MAY 01...	.06	E.6	.18	5.2	124	.68	40.8	.6	3.33	<1	21	.03	7.2
JUN 11...	.09	E.5	.17	9.5	182	.49	46.7	.8	4.32	<1	16	.05	6.1
JUL 01...	.12	<.8	.21	15.0	138	.34	24.9	2.8	6.42	<1	15	.06	5.0
AUG 12...	.20	E.6	.41	17.8	105	.29	22.0	5.0	7.60	<1	16	.11	7.0
SEP 09...	.12	E.7	.32	19.5	118	.32	28.8	3.7	6.72	<1	15	.06	5.5

Value qualifier codes used in this report:  
k -- Counts outside acceptable range

## HOUSATONIC RIVER BASIN

## RESERVOIRS IN HOUSATONIC RIVER BASIN

- 01201000 CANDLEWOOD LAKE (ROCKY RIVER RESERVOIR).**--Lat 41°35'00", long 73°26'00", Litchfield County, Conn., Hydrologic Unit 01100005, on Rocky River, 2 mi west of New Milford. Drainage area, 40.5 mi<sup>2</sup>. Usable capacity, 6,210,000,000 ft<sup>3</sup>. Records available, August 1928 to current year. Completed in 1928 for storage of water for power; impounds water pumped from the Housatonic River during off peak power periods. Records furnished by Connecticut Light and Power Company.
- 01201999 CAIRNS RESERVOIR.**--Lat 41°44'40", long 73°18'05", Litchfield County, Conn., Hydrologic Unit 01100005, on West Branch Shepaug River, 2.6 mi north of Woodville. Drainage area, 10.2 mi<sup>2</sup>. Usable capacity, 360,000,000 ft<sup>3</sup>. Records available November 1964 to current year. Completed in 1964 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.
- 01202000 SHEPAUG RESERVOIR.**--Lat 41°43'24", long 73°17'37", Litchfield County, Conn., Hydrologic Unit 01100005, on Shepaug River 1 mi north of Woodville. Drainage area, 38.0 mi<sup>2</sup>. Usable capacity, 96,100,000 ft<sup>3</sup>, of which 76,900,000 ft<sup>3</sup> can be diverted for municipal supply. Storage below diversion intake can be released through floodgates or through a fountain at toe of dam. Records available, January 1933 to current year. Completed in September 1933 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.
- 01203500 LAKE LILLINONAH.**--Lat 41°26'52", long 73°17'49", New Haven County, Conn., Hydrologic Unit 01100005, on Housatonic River, and Fairfield County, Conn., 2.3 mi north of Newtown. Drainage area, 1,392 mi<sup>2</sup>. Usable capacity above taintor gate sills, 1,756,000,000 ft<sup>3</sup>. Normal operating volume, 235,000,000 ft<sup>3</sup>. Records available, January 1955 to current year. Completed in 1955 for storage of water for power. Records furnished by Connecticut Light and Power Company.
- 01205000 LAKE ZOAR.**--Lat 41°23'00", long 73°10'18", Fairfield County, Conn., Hydrologic Unit 01100005, on Housatonic River at Stevenson. Drainage area, 1,541 mi<sup>2</sup>. Usable capacity, 340,000,000 ft<sup>3</sup>, revised. Records available, August 1928 to current year. Completed in 1919 for storage of water for power. Records furnished by Connecticut Light and Power Company.
- 01205560 HALL MEADOW BROOK DETENTION RESERVOIR.**--Lat 41°52'10", long 73°10'04", Litchfield County, Conn., Hydrologic Unit 01100005, on Hall Meadow Brook in West Branch Naugatuck River basin, 5.2 mi north of Torrington. Drainage area, 12.0 mi<sup>2</sup>. Usable capacity, 375,000,000 ft<sup>3</sup>. Records available, October 1964 to current year. Completed in 1962 by Corps of Engineers for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01205610 LAKE WINCHESTER.**--Lat 41°54'27", long 73°09'08", Litchfield County, Conn., Hydrologic Unit 01100005, 1 mi northwest of Winchester on East Branch Naugatuck River. Drainage area, 2.18 mi<sup>2</sup>. Usable capacity, 116,200,000 ft<sup>3</sup> based on lake survey by the Connecticut Board of Fisheries and Game. Records available, September 1965 to current year. Completed in 1926 for storage of water for power. Lake is presently used for conservation and recreation.
- 01205650 EAST BRANCH DETENTION RESERVOIR.**--Lat 41°50'13", long 73°07'15", Litchfield County, Conn., Hydrologic Unit 01100005, on East Branch Naugatuck River, 2.3 mi north of Torrington. Drainage area, 9.30 mi<sup>2</sup>. Usable capacity, 189,500,000 ft<sup>3</sup>. Records available, March 1965 to current year. Completed in 1964 by Corps of Engineers for recreation and flood control. Operated and maintained by Parks and Recreation Unit of Connecticut Department of Environmental Protection. Records furnished by Corps of Engineers.
- 01206600 THOMASTON RESERVOIR.**--Lat 41°41'41", long 73°03'44", Litchfield County, Conn., Hydrologic Unit 01100005, on Naugatuck River 0.2 mi downstream from Leadmine Brook, 1.5 mi north of Thomaston, and at mile 31.0. Drainage area, 96.1 mi<sup>2</sup>. Usable capacity, 1,830,000,000 ft<sup>3</sup>. Records available, January 1961 to current year. Completed in December 1960 by Corps of Engineers for flood control. Records furnished by Corps of Engineers.
- 01206940 NORTHFIELD BROOK LAKE.**--Lat 41°40'48", long 73°05'27", Litchfield County, Conn., Hydrologic Unit 01100005, on Northfield Brook in Naugatuck River basin, 1 mi northwest of Thomaston. Drainage area, 5.52 mi<sup>2</sup>. Usable capacity, 104,000,000 ft<sup>3</sup>. Permanent pool capacity, 3,600,000 ft<sup>3</sup>. Records available, September 1965 to current year. Completed in 1965 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.



**RESERVOIRS IN HOUSATONIC RIVER BASIN--Continued**

**01207000 PITCH RESERVOIR.**--Lat 41°41'34", long 73°09'04", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 4 mi northwest of Thomaston. Drainage area, 5.93 mi<sup>2</sup>. Usable capacity, 189,000,000 ft<sup>3</sup>. Records available, October 1943 to current year. Completed in 1943 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

**01207500 MORRIS RESERVOIR.**--Lat 41°40'29", long 73°08'39", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 3.5 mi west of Thomaston. Drainage area, including Pitch Reservoir, 13.0 mi<sup>2</sup>. Usable capacity, 265,600,000 ft<sup>3</sup>. Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1913 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

**01208000 WIGWAM RESERVOIR.**--Lat 41°39'50", long 73°07'41", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 3 mi west of Thomaston. Drainage area, including Pitch and Morris Reservoirs, 17.5 mi<sup>2</sup>. Usable capacity, 98,500,000 ft<sup>3</sup>. Records available, May 1918 to September 1924, September 1928 to current year. Completed in 1902 for storage of water for municipal supply of city of Waterbury. Records furnished by Bureau of Engineering, city of Waterbury.

**01208011 BLACK ROCK LAKE.**--Lat 41°39'26", long 73°06'13", Litchfield County, Conn., Hydrologic Unit 01100005, on Branch Brook in Naugatuck River basin, 1.8 mi southwest of Thomaston. Drainage area, 20.5 mi<sup>2</sup>. Usable capacity, 373,000,000 ft<sup>3</sup>. Permanent pool capacity, 11,543,000 ft<sup>3</sup>. Records available, October 1970 to current year. Completed in 1970 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

**01208130 HANCOCK BROOK LAKE.**--Lat 41°37'23", long 73°02'12", Litchfield County, Conn., Hydrologic Unit 01100005, on Hancock Brook in Naugatuck River basin, 1.1 mi southwest of Hancock. Drainage area, 11.9 mi<sup>2</sup>. Usable capacity 170,000,000 ft<sup>3</sup>. Permanent pool capacity, 5,700,000 ft<sup>3</sup>. Records available, September 1965 to current year. Completed in 1965 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

**01208410 HOP BROOK LAKE.**--Lat 41°30'50", long 73°04'03", New Haven County, Conn., Hydrologic Unit 01100005, on Hop Brook in Naugatuck River basin, 1.2 mi northwest of Union City. Drainage area, 16.0 mi<sup>2</sup>. Usable capacity, 304,000,000 ft<sup>3</sup>. Records available, February 1969 to current year. Completed in 1969 by Corps of Engineers for recreation and flood control. Records furnished by Corps of Engineers.

## ROOSTER RIVER BASIN

## 01208873 ROOSTER RIVER AT FAIRFIELD, CT

**LOCATION.**--Lat 41°10'47", long 73°13'10", Fairfield County, Hydrologic Unit 01100006, on left bank, on floodwall, at corner of Renwick Drive and Renwick Place, Bridgeport.

**DRAINAGE AREA.**--10.6 mi<sup>2</sup>.

**PERIOD of RECORD.**--October 1977 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 5.44 ft above sea level. Prior to June 22, 1988, at site 1,300 ft downstream at datum 3.06 ft lower.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Prior to June 22, 1988, stage sometimes affected by tide.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 1,370 ft<sup>3</sup>/s, Sept. 2, gage height, 9.19 ft; minimum discharge, 1.4 ft<sup>3</sup>/s, on several days, gage height, 2.91 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	2.0	2.7	e2.8	7.7	3.0	18	18	13	6.1	2.7	3.0
2	3.8	1.8	2.4	e2.6	5.0	3.2	8.7	36	8.5	6.0	57	212
3	3.1	3.4	e2.2	e2.5	e3.7	67	17	20	7.7	5.7	10	13
4	3.1	1.5	e2.1	e2.5	e3.4	8.8	11	14	7.3	5.6	4.5	27
5	2.6	e1.5	2.3	e2.4	e3.3	6.7	7.8	13	17	5.3	4.0	6.4
6	3.9	e1.5	2.1	18	e3.2	6.2	7.5	12	51	5.0	3.5	5.0
7	2.3	e1.5	2.6	12	3.5	5.8	7.1	11	94	5.0	3.3	4.4
8	2.1	e1.5	4.0	4.0	3.4	5.5	7.1	10	20	4.8	3.2	4.1
9	2.1	e1.4	16	4.5	3.2	5.3	7.1	9.7	16	7.1	3.1	3.7
10	2.0	e1.4	3.3	3.6	9.5	6.8	13	9.4	14	6.2	3.0	3.4
11	1.7	e1.4	2.6	5.6	16	5.0	6.8	8.2	13	4.9	2.7	3.7
12	1.4	e1.4	2.3	3.9	4.3	4.8	7.5	26	17	4.7	2.5	4.5
13	1.4	e1.4	2.3	4.7	4.0	7.3	7.2	93	13	4.4	2.5	4.0
14	1.4	e1.4	7.5	3.9	3.6	5.3	14	39	35	4.2	2.4	3.9
15	23	5.8	4.7	4.0	3.7	4.6	13	18	17	4.2	2.3	40
16	2.4	e4.0	2.8	3.6	3.7	4.6	7.1	14	18	4.2	2.3	46
17	2.1	e3.6	4.2	4.3	5.7	4.2	6.7	13	13	4.2	2.3	6.7
18	1.9	e3.3	28	3.6	3.6	11	6.3	102	12	4.1	2.4	4.6
19	1.7	e3.2	4.9	3.4	3.4	6.5	6.3	23	12	32	2.3	3.9
20	1.6	7.3	3.8	4.1	3.4	44	6.3	18	10	8.6	6.8	3.6
21	1.6	e3.9	3.3	7.0	6.4	15	5.7	16	9.7	4.8	2.3	3.4
22	1.6	e3.4	3.2	5.3	3.6	9.3	9.2	14	9.0	e3.0	2.1	3.3
23	1.7	e3.2	3.0	5.2	3.3	8.1	6.1	13	8.6	70	2.1	3.4
24	1.8	5.6	32	8.0	3.2	7.3	5.5	12	7.9	9.5	5.5	2.9
25	2.0	18	5.1	5.4	3.2	6.8	20	11	7.1	4.6	4.5	2.7
26	2.3	8.7	4.3	4.5	3.2	19	8.4	11	17	3.9	2.1	8.6
27	2.3	3.0	3.8	4.2	4.4	39	5.9	10	16	3.6	2.1	39
28	2.1	2.7	3.6	4.2	3.3	12	103	36	12	3.3	2.0	10
29	1.9	3.2	3.4	3.9	---	10	36	12	6.9	5.8	57	4.8
30	2.0	3.0	3.2	3.8	---	9.7	28	9.9	6.3	3.2	4.9	4.4
31	2.1	---	3.0	4.3	---	11	---	18	---	2.9	3.1	---
TOTAL	106.0	105.0	170.7	151.8	127.9	362.8	413.3	670.2	509.0	246.9	210.5	485.4
MEAN	3.42	3.50	5.51	4.90	4.57	11.7	13.8	21.6	17.0	7.96	6.79	16.2
MAX	23	18	32	18	16	67	103	102	94	70	57	212
MIN	1.4	1.4	2.1	2.4	3.2	3.0	5.5	8.2	6.3	2.9	2.0	2.7
CFSM	0.32	0.33	0.52	0.46	0.43	1.10	1.30	2.04	1.60	0.75	0.64	1.53
IN.	0.37	0.37	0.60	0.53	0.45	1.27	1.45	2.35	1.79	0.87	0.74	1.70

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

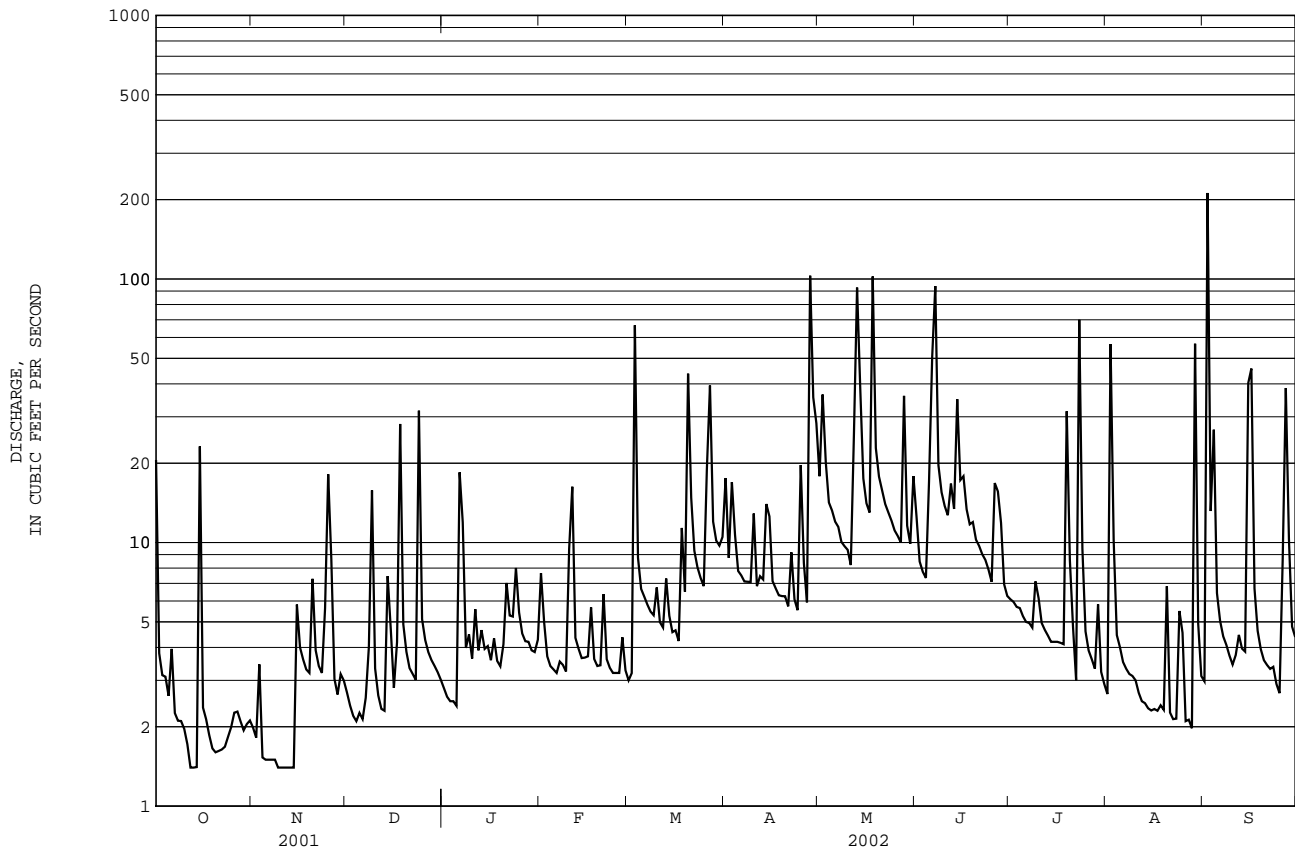
	MEAN	10.8	15.1	16.8	20.3	17.3	23.4	23.4	20.4	15.0	8.98	10.5	9.44
MAX	34.1	34.0	42.1	74.1	34.1	45.0	75.1	71.2	65.1	23.1	31.9	23.9	
(WY)	1990	1989	1997	1979	1979	1983	1983	1989	1982	1984	1992	2000	
MIN	3.42	3.50	2.25	3.68	4.57	8.78	6.08	6.28	3.73	2.30	1.38	0.000	
(WY)	2002	2002	1999	1981	2002	1985	1985	1986	1999	1999	1981	1977	

e Estimated.

## 01208873 ROOSTER RIVER AT FAIRFIELD, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1977 - 2002		
ANNUAL TOTAL	4980.2			3559.5			16.0		
ANNUAL MEAN	13.6			9.75			24.3		
HIGHEST ANNUAL MEAN							7.26		
LOWEST ANNUAL MEAN							1978		
HIGHEST DAILY MEAN	220	Mar	30	212	Sep	2	858	Jan	21 1979
LOWEST DAILY MEAN	1.4	Oct	12	1.4	Oct	12	0.00	Apr	22 1977
ANNUAL SEVEN-DAY MINIMUM	1.4	Nov	8	1.4	Nov	8	0.00	Apr	27 1977
MAXIMUM PEAK FLOW				1370	Sep	2	2170	Apr	9 1980
MAXIMUM PEAK STAGE				9.19	Sep	2	11.65	Apr	9 1980
INSTANTANEOUS LOW FLOW				a1.4	Oct	11	0.16	Oct	2 1980
ANNUAL RUNOFF (CFSM)	1.29			0.92			1.51		
ANNUAL RUNOFF (INCHES)	17.48			12.49			20.48		
10 PERCENT EXCEEDS	27			18			30		
50 PERCENT EXCEEDS	7.4			4.6			9.3		
90 PERCENT EXCEEDS	2.0			2.1			2.5		

a Also occurred Oct. 12-15, Nov. 4.



## MILL RIVER BASIN

## 01208925 MILL RIVER NEAR FAIRFIELD, CT

**LOCATION.**--Lat 41°09'55", long 73°16'14", Fairfield County, Hydrologic Unit 01100006, on right bank just downstream from bridge on Duck Farm Rd., 1.5 mi north of Fairfield, 18.3 mi downstream from headwater of Aspetuck River, 14.0 mi downstream from headwater of Mill River, and 2.3 mi upstream from mouth at Southport Harbor.

**DRAINAGE AREA.**--28.6 mi<sup>2</sup>.

**PERIOD of RECORD.**--October 1972 to current year.

**REVISED RECORDS.**--WDR CT-80-1: 1973-74, 1976-79 (P). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 15.89 ft above sea level.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow completely regulated by Easton, Hemlock, and Samp Mortar Reservoirs, usable capacity 609,900,000 ft<sup>3</sup>, diversions into Hemlock Reservoir from Aspetuck Reservoir in the Aspetuck River Basin and by diversions from Hemlock and Easton Reservoirs by the BHC Company for water supply of the cities of Bridgeport and Fairfield.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 394 ft<sup>3</sup>/s, Sept. 2, gage height, 3.97 ft; minimum discharge, 1.3 ft<sup>3</sup>/s, Oct. 23, gage height, 0.87 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	3.2	40	7.4	7.4	5.8	27	45	25	7.8	4.4	5.2
2	9.5	4.1	27	6.9	7.1	5.8	22	48	18	7.6	24	122
3	6.7	5.3	26	6.5	e6.9	13	22	49	16	7.1	30	36
4	6.1	7.5	33	6.2	e6.7	7.4	27	34	14	6.3	9.6	31
5	6.3	14	35	6.1	e6.6	7.2	21	29	21	6.0	6.9	17
6	7.3	13	23	7.7	e6.5	7.0	19	26	29	4.8	6.0	11
7	5.6	11	15	9.2	e7.2	6.8	17	26	112	5.4	4.5	15
8	4.5	11	13	9.6	e7.6	5.7	17	23	43	5.4	4.4	33
9	4.3	11	12	9.6	7.4	5.1	16	22	30	6.6	4.3	32
10	5.1	11	10	9.0	7.6	5.4	20	20	25	7.2	4.2	30
11	4.8	12	10	8.7	9.9	4.6	16	18	20	5.7	4.1	28
12	5.4	11	8.9	8.4	e9.5	4.5	15	25	21	4.9	4.1	26
13	4.6	12	7.4	8.2	e8.0	4.9	16	72	21	4.8	4.1	39
14	5.0	12	7.2	7.8	e7.0	6.1	20	111	31	4.8	4.0	35
15	16	11	5.9	7.8	e6.0	9.7	20	54	36	4.9	4.1	32
16	6.4	7.9	5.5	7.4	e5.4	9.8	16	37	29	4.9	4.3	44
17	4.1	3.8	8.0	7.4	5.7	8.6	15	31	26	4.2	4.2	36
18	3.0	5.1	9.2	7.2	5.5	13	15	111	20	4.5	3.9	26
19	2.5	5.1	10	7.2	5.5	15	13	61	18	5.8	3.6	15
20	2.5	4.8	11	7.2	5.6	33	13	43	22	13	5.2	9.2
21	2.1	4.1	9.1	7.6	5.8	43	13	37	16	6.6	4.6	8.0
22	2.0	4.1	9.5	7.5	5.7	25	14	31	14	5.0	4.2	7.6
23	1.5	4.1	8.9	7.7	5.7	20	14	29	12	21	4.7	7.3
24	2.4	4.7	13	8.3	5.8	18	12	26	11	22	4.8	6.6
25	3.7	7.4	10	8.5	5.8	16	17	23	10	9.1	7.0	6.2
26	3.2	15	10	8.9	5.8	19	22	22	13	6.7	5.5	7.0
27	2.1	7.9	13	8.7	5.9	51	15	21	17	6.1	4.8	26
28	2.5	5.9	14	8.4	5.8	31	61	36	18	6.0	4.5	21
29	2.6	5.3	11	8.1	---	25	95	27	11	6.8	27	13
30	2.2	26	9.3	7.5	---	22	46	22	8.6	5.9	14	10
31	2.2	---	8.1	7.2	---	20	---	20	---	4.8	6.7	---
TOTAL	153.2	260.3	433.0	243.9	185.4	468.4	676	1179	707.6	221.7	227.7	735.1
MEAN	4.94	8.68	14.0	7.87	6.62	15.1	22.5	38.0	23.6	7.15	7.35	24.5
MAX	17	26	40	9.6	9.9	51	95	111	112	22	30	122
MIN	1.5	3.2	5.5	6.1	5.4	4.5	12	18	8.6	4.2	3.6	5.2

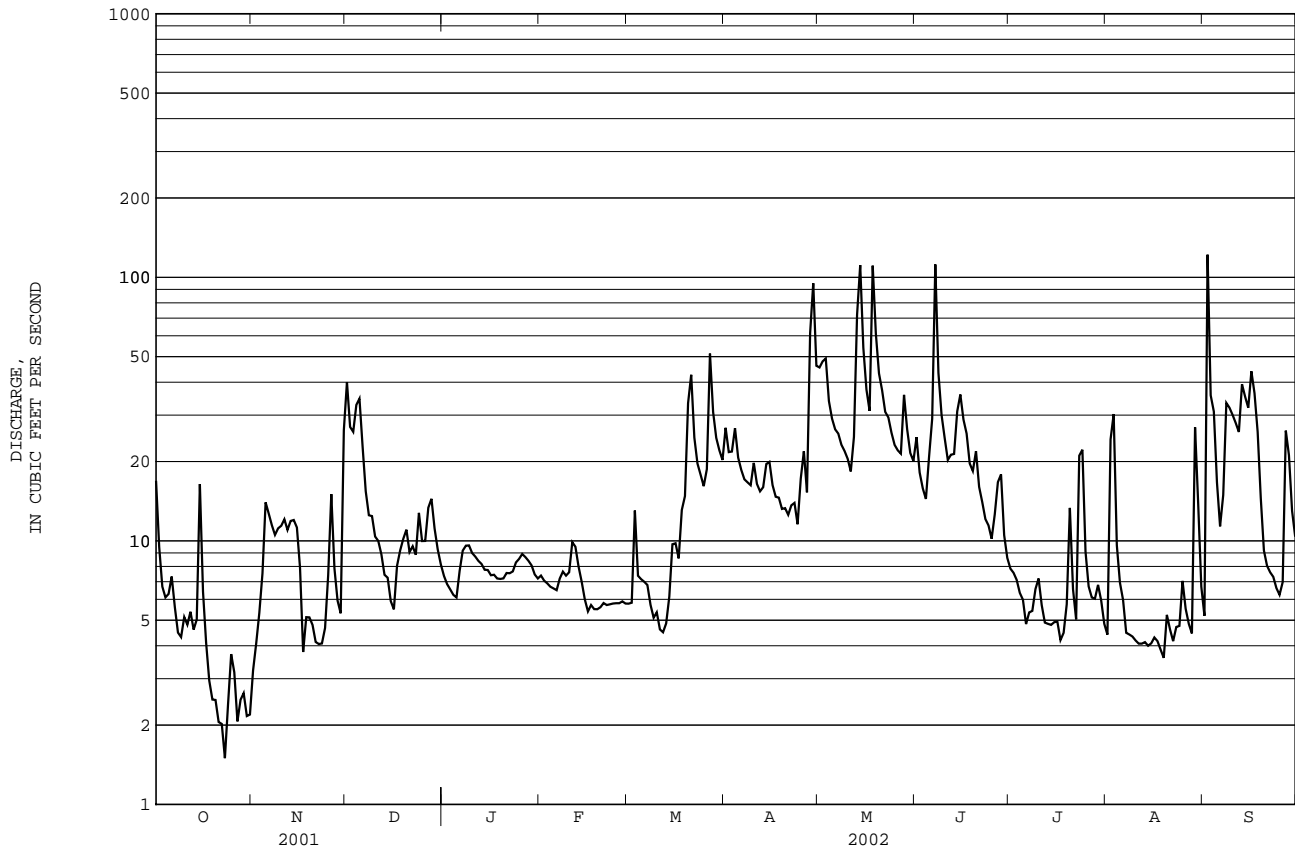
## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY)

	MEAN	17.7	27.0	42.7	46.4	44.6	70.2	76.6	52.5	31.6	14.9	14.2	14.1
	MAX	64.1	80.3	165	176	103	168	276	216	195	71.7	63.6	42.2
	(WY)	1997	1997	1997	1979	1973	1983	1983	1989	1982	1984	1992	1994
	MIN	2.98	8.00	7.04	3.13	6.62	15.1	12.1	10.2	2.74	0.93	1.72	2.16
	(WY)	1985	1999	1983	1981	2002	2002	1985	1986	1987	1987	1987	1983

e Estimated.

## 01208925 MILL RIVER NEAR FAIRFIELD, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1973 - 2002	
ANNUAL TOTAL	11547.4		5491.3		37.7	
ANNUAL MEAN	31.6		15.0		62.4	
HIGHEST ANNUAL MEAN					12.0	
LOWEST ANNUAL MEAN					12.0	
HIGHEST DAILY MEAN	392	Mar 23	122	Sep 2	1300	Jun 6 1982
LOWEST DAILY MEAN	1.5	Oct 23	1.5	Oct 23	0.00	Nov 7 1979
ANNUAL SEVEN-DAY MINIMUM	2.3	Oct 18	2.3	Oct 18	0.71	Jul 16 1987
MAXIMUM PEAK FLOW			394	Sep 2	1800	Apr 10 1980
MAXIMUM PEAK STAGE			3.97	Sep 2	7.15	Apr 10 1980
INSTANTANEOUS LOW FLOW			1.3	Oct 23	0.00	Nov 7 1979
10 PERCENT EXCEEDS	73		31		84	
50 PERCENT EXCEEDS	15		9.1		20	
90 PERCENT EXCEEDS	4.8		4.4		3.9	



## 01208950 SASCO BROOK NEAR SOUTHPORT, CT

**LOCATION.**--Lat 41°09'10", long 73°18'23", Fairfield County, Hydrologic Unit 01100006, on left downstream abutment of bridge on Hulls Farm Rd., 1.5 mi northwest of Southport.

**DRAINAGE AREA.**--7.38 mi<sup>2</sup>.

PERIOD of RECORD.--Occasional low-flow measurements and annual maximum, water years 1961-64. October 1964 to current year.

REVISED RECORDS.--WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 52.01 ft above sea level. Sept. 6, 1960, to Oct. 6, 1964, crest-stage gage, Oct. 7, 1964 to June 16, 1966, water-stage recorder, and June 17, 1966, to Apr. 27, 1969, nonrecording gage and crest-stage gage at same site and datum. Telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Sep 2	1415	*185	*3.17	No other peak greater than base discharge.			

Minimum discharge, 0.09 ft<sup>3</sup>/s, Aug. 24, gage height, 0.90 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

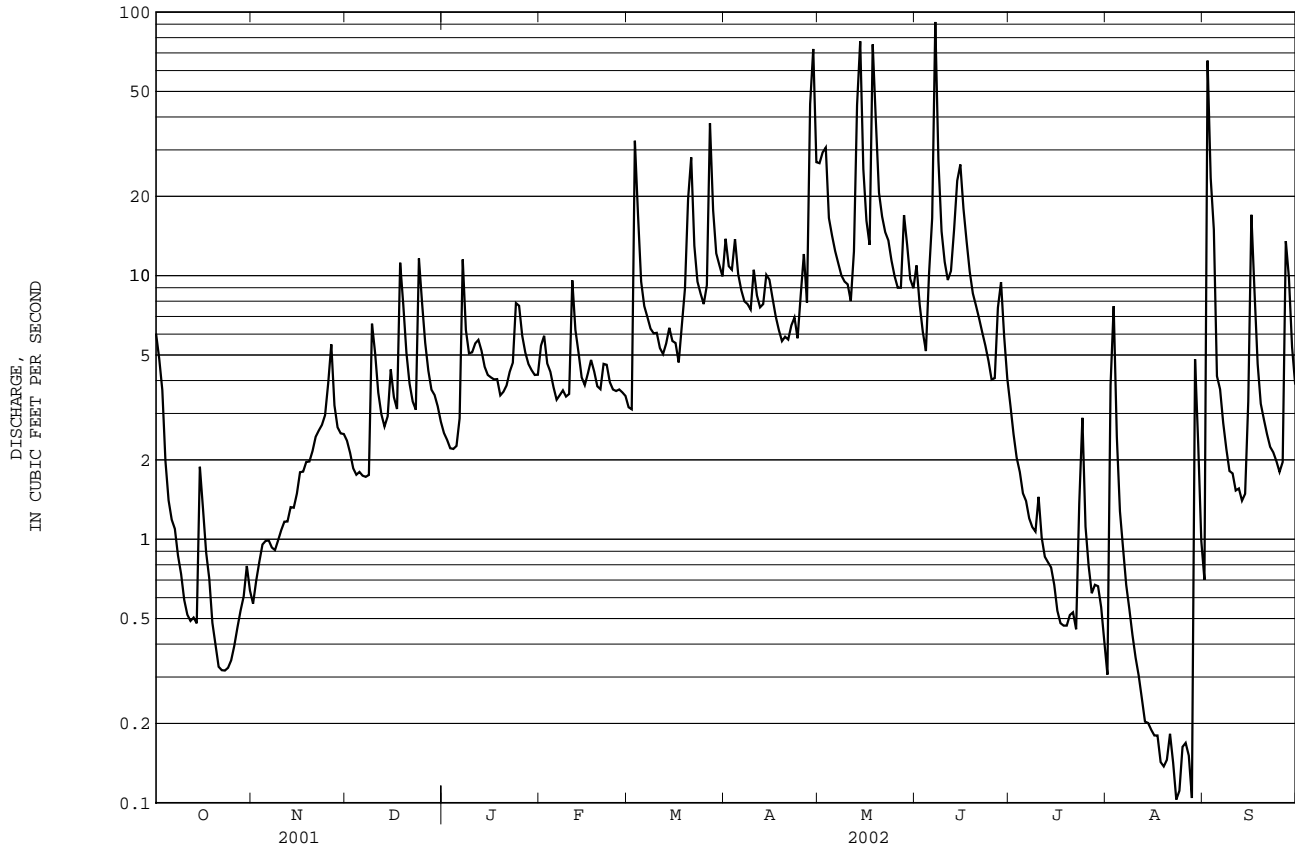
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	0.57	2.4	2.5	5.4	3.2	14	27	11	3.2	0.31	0.70
2	4.8	0.70	2.1	2.4	5.9	3.1	11	29	7.8	2.5	3.8	65
3	3.7	0.82	1.9	2.2	4.6	33	11	31	6.1	2.0	7.7	23
4	2.0	0.95	1.8	2.2	4.3	17	14	17	5.2	1.8	2.4	15
5	1.4	0.98	1.8	2.3	3.8	9.5	10	14	10	1.5	1.3	4.2
6	1.2	0.99	1.7	2.9	3.4	7.7	8.8	12	17	1.4	0.92	3.7
7	1.1	0.93	1.7	12	3.5	7.0	8.0	11	92	1.2	0.67	2.8
8	0.87	0.91	1.8	6.2	3.7	6.3	7.8	10	27	1.1	0.54	2.2
9	0.74	0.99	6.6	5.1	3.5	6.0	7.4	9.5	15	1.1	0.43	1.8
10	0.59	1.1	5.1	5.1	3.6	6.1	11	9.3	11	1.4	0.36	1.8
11	0.52	1.2	3.6	5.5	9.6	5.3	8.4	8.0	9.6	1.0	0.30	1.5
12	0.49	1.2	3.0	5.7	6.2	5.0	7.6	12	10	0.86	0.25	1.6
13	0.50	1.3	2.7	5.2	5.1	5.5	7.8	44	15	0.82	0.20	1.4
14	0.48	1.3	2.9	4.5	4.1	6.3	10	77	23	0.78	0.20	1.5
15	1.9	1.5	4.4	4.2	3.8	5.6	9.7	25	26	0.67	0.19	3.3
16	1.3	1.8	3.5	4.1	4.3	5.6	8.2	16	18	0.54	0.18	17
17	0.89	1.8	3.1	4.0	4.8	4.7	7.0	13	13	0.48	0.18	8.7
18	0.71	2.0	11	4.0	4.3	6.5	6.2	75	10	0.47	0.14	4.6
19	0.48	2.0	7.7	3.5	3.8	8.9	5.6	39	8.6	0.47	0.14	3.3
20	0.40	2.2	5.1	3.6	3.7	20	5.9	21	7.7	0.52	0.15	2.8
21	0.33	2.4	3.9	3.8	4.6	28	5.7	17	6.9	0.53	0.18	2.5
22	0.32	2.6	3.3	4.3	4.6	13	6.5	15	6.1	0.46	0.14	2.2
23	0.32	2.7	3.1	4.7	3.9	9.5	6.9	14	5.4	1.4	0.10	2.1
24	0.33	3.0	12	7.9	3.7	8.6	5.8	11	4.7	2.9	0.11	2.0
25	0.35	3.9	7.9	7.7	3.6	7.8	8.5	10	4.0	1.1	0.16	1.8
26	0.39	5.5	5.6	5.9	3.7	9.2	12	9.0	4.1	0.79	0.17	2.0
27	0.46	3.2	4.4	5.1	3.6	38	7.9	9.0	7.6	0.62	0.15	14
28	0.54	2.7	3.7	4.6	3.5	18	45	17	9.5	0.67	0.10	9.8
29	0.61	2.5	3.5	4.4	---	12	72	13	5.9	0.66	4.8	5.4
30	0.79	2.5	3.2	4.2	---	11	27	9.7	4.1	0.55	2.3	3.9
31	0.64	---	2.8	4.2	---	9.9	---	9.0	---	0.41	0.98	---
TOTAL	35.15	56.24	127.3	144.0	122.6	337.3	376.7	633.5	401.3	33.90	29.55	211.60
MEAN	1.13	1.87	4.11	4.65	4.38	10.9	12.6	20.4	13.4	1.09	0.95	7.05
MAX	6.0	5.5	12	12	9.6	38	72	77	92	3.2	7.7	65
MIN	0.32	0.57	1.7	2.2	3.4	3.1	5.6	8.0	4.0	0.41	0.10	0.70
CFSM	0.15	0.25	0.56	0.63	0.59	1.47	1.70	2.77	1.81	0.15	0.13	0.96
IN.	0.18	0.28	0.64	0.73	0.62	1.70	1.90	3.19	2.02	0.17	0.15	1.07

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	6.38	11.8	17.5	17.4	17.7	25.3	23.3	17.0	11.5	4.44	3.94	4.65
MAX	25.0	26.4	46.1	60.3	36.9	46.4	82.2	79.1	79.2	21.1	18.9	20.6
(WY)	1997	1978	1997	1979	1970	1983	1983	1989	1972	1984	1992	1974
MIN	0.22	0.84	0.50	1.97	4.38	9.56	6.34	3.69	1.35	0.22	0.076	0.16
(WY)	1965	1966	1999	1966	2002	1981	1985	1986	1999	1966	1966	1980

## 01208950 SASCO BROOK NEAR SOUTHPORT, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	3862.61		2509.14		13.4	
ANNUAL MEAN	10.6		6.87		22.2	
HIGHEST ANNUAL MEAN					4.47	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	155	Mar 30	92	Jun 7	785	Jun 19 1972
LOWEST DAILY MEAN	0.11	Sep 12	0.10	Aug 23	0.00	Jul 26 1993
ANNUAL SEVEN-DAY MINIMUM	0.17	Sep 7	0.13	Aug 22	0.01	Oct 6 1964
MAXIMUM PEAK FLOW			185	Sep 2	1640	Jun 19 1972
MAXIMUM PEAK STAGE			3.17	Sep 2	7.00	Jun 19 1972
INSTANTANEOUS LOW FLOW			0.09	Aug 24	0.00	Jul 23 1991
ANNUAL RUNOFF (CFSM)	1.43		0.93		1.81	
ANNUAL RUNOFF (INCHES)	19.47		12.65		24.64	
10 PERCENT EXCEEDS	26		14		29	
50 PERCENT EXCEEDS	4.5		3.9		7.7	
90 PERCENT EXCEEDS	0.50		0.49		0.71	



## SAUGATUCK RIVER BASIN

## 01208990 SAUGATUCK RIVER NEAR REDDING, CT

**LOCATION.**--Lat 41°17'40", long 73°23'44", Fairfield County, Hydrologic Unit 01100006, on right downstream side of bridge on State Rt. 53, 100 ft south of intersection of State Rts. 53 and 107, 0.8 mi upstream from Saugatuck Reservoir, and 1.0 mi southwest of Redding.  
**DRAINAGE AREA.**--21.0 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD of RECORD.**--Occasional low-flow measurements, water years 1961-64, and annual maximum, water years 1962-64. October 1964 to current year.

**REVISED RECORDS.**--WDR CT-80-1: 1976-79 (P). WDR CT-83-1: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 285.42 ft above sea level. Nov. 7, 1961, to Oct. 4, 1964, crest-stage gage, Oct. 1, 1964 to Apr. 25, 1966, water-stage recorder, and Apr. 26, 1966, to Sept. 30, 1969, nonrecording gage and crest-stage gage at same site and datum. Telephone telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 180 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar 3	0530	*212	*3.01	May 13	1915	195	2.93

Minimum discharge, 0.73 ft<sup>3</sup>/s, Aug. 28, 29, gage height, 0.68 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	5.9	5.2	e7.7	19	10	40	52	45	10	2.9	3.7
2	10	5.5	4.8	e7.4	21	15	33	50	32	8.8	5.5	24
3	7.2	5.9	5.4	e7.2	15	126	33	66	24	7.8	14	26
4	6.0	5.7	4.7	e7.0	e13	82	42	51	19	6.7	7.5	27
5	5.7	5.1	4.2	e6.8	e12	56	34	39	22	5.7	6.1	17
6	4.2	4.3	4.0	e6.6	e11	45	32	34	33	4.6	5.1	12
7	3.7	3.6	3.7	e9.0	e10	41	29	30	148	4.2	3.6	7.7
8	3.3	3.3	9.6	e10	11	36	27	27	100	3.8	2.9	5.2
9	3.2	3.5	11	9.6	11	33	26	24	67	4.8	2.4	3.6
10	3.5	3.4	9.3	9.6	11	36	26	24	47	9.9	2.1	2.7
11	3.5	3.1	7.5	11	29	28	24	21	37	6.2	1.9	2.3
12	3.5	3.2	6.5	12	18	24	22	22	35	4.9	1.7	7.1
13	3.3	3.5	6.0	12	15	23	23	79	41	4.0	1.6	1.9
14	3.1	9.8	6.4	12	e13	24	22	154	46	3.6	1.4	1.8
15	5.7	4.0	8.8	12	e12	22	34	101	63	3.4	1.3	4.9
16	5.6	3.2	7.4	13	14	22	30	64	58	3.0	1.2	13
17	5.1	3.0	6.7	12	14	21	26	51	53	2.4	1.1	10
18	4.5	3.0	23	e10	13	23	21	117	46	2.4	0.98	6.7
19	3.8	2.9	19	e9.7	12	29	18	110	33	9.6	0.86	5.0
20	3.6	3.1	14	e9.3	12	41	17	79	26	37	0.88	3.6
21	3.6	4.1	12	e9.0	24	60	17	59	22	16	1.2	2.8
22	13	3.8	12	e8.7	18	47	17	63	19	10	1.1	2.5
23	19	3.4	20	e8.5	14	37	20	70	16	8.2	0.85	2.4
24	16	3.8	28	18	13	33	17	46	14	12	0.81	2.2
25	14	3.8	20	23	13	30	19	35	12	7.6	0.92	7.1
26	13	8.2	15	18	13	32	27	35	12	5.3	0.91	2.5
27	13	6.7	12	17	14	68	23	37	14	4.3	0.80	14
28	12	5.4	e10	16	11	48	68	56	18	4.1	0.79	13
29	11	4.7	e9.2	16	---	41	96	49	14	7.6	8.1	8.8
30	8.7	5.1	e8.5	17	---	36	64	45	12	5.7	9.6	7.5
31	7.0	---	e8.0	16	---	35	---	39	---	4.3	5.0	---
TOTAL	230.8	134.0	321.9	361.1	406	1204	927	1729	1128	227.9	95.10	248.0
MEAN	7.45	4.47	10.4	11.6	14.5	38.8	30.9	55.8	37.6	7.35	3.07	8.27
MAX	19	9.8	28	23	29	126	96	154	148	37	14	27
MIN	3.1	2.9	3.7	6.6	10	10	17	21	12	2.4	0.79	1.8
CFSM	0.35	0.21	0.49	0.55	0.69	1.85	1.47	2.66	1.79	0.35	0.15	0.39
IN.	0.41	0.24	0.57	0.64	0.72	2.13	1.64	3.06	2.00	0.40	0.17	0.44

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	19.7	35.9	54.2	52.1	54.8	78.9	70.3	48.7	30.4	14.3	11.3	14.8
MAX	87.9	93.6	167	187	128	176	220	167	166	79.1	47.6	92.1
(WY)	1997	1973	1984	1979	1970	1983	1983	1989	1972	1984	1976	1975
MIN	0.92	2.28	8.05	4.69	14.5	34.7	18.9	11.4	6.01	0.88	0.22	0.42
(WY)	1965	1965	1966	1981	2002	1982	1985	1986	1995	1966	1966	1983

e Estimated.



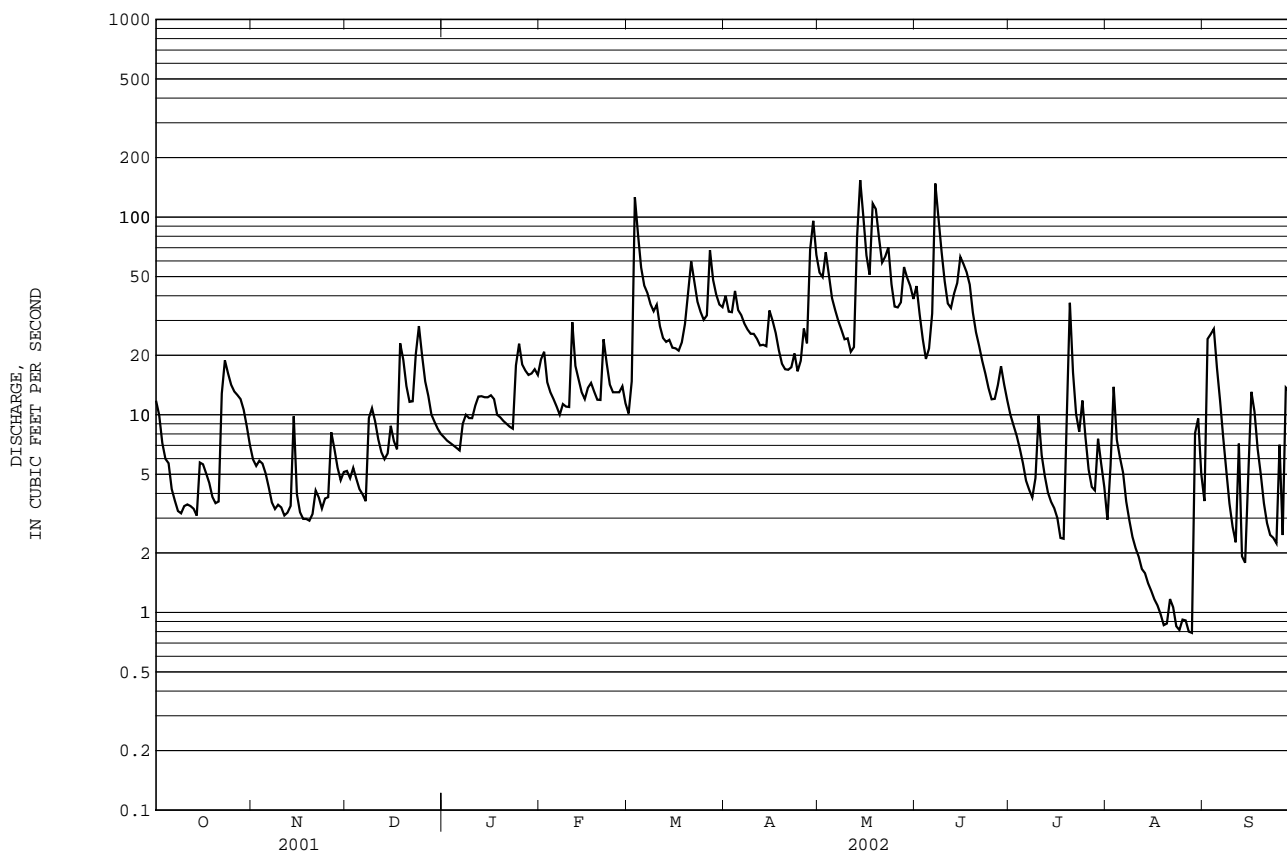
SAUGATUCK RIVER BASIN

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01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	10272.94		7012.80		40.4	
ANNUAL MEAN	28.1		19.2		74.8	
HIGHEST ANNUAL MEAN					16.2	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	272	Mar 22	154	May 14	1300	Mar 22 1980
LOWEST DAILY MEAN	0.81	Aug 11	0.79	Aug 28	0.05	Sep 2 1966
ANNUAL SEVEN-DAY MINIMUM	1.0	Aug 6	0.88	Aug 22	0.11	Aug 28 1966
MAXIMUM PEAK FLOW			212	Mar 3	2160	Mar 25 1969
MAXIMUM PEAK STAGE			3.01	Mar 3	5.88	Mar 25 1969
INSTANTANEOUS LOW FLOW			a0.73	Aug 28	0.05	Sep 2 1966
ANNUAL RUNOFF (CFSM)	1.34		0.91		1.92	
ANNUAL RUNOFF (INCHES)	18.20		12.42		26.12	
10 PERCENT EXCEEDS	75		46		91	
50 PERCENT EXCEEDS	13		12		25	
90 PERCENT EXCEEDS	2.6		3.0		2.5	

a Also occurred Aug. 29.



## SAUGATUCK RIVER BASIN

## 01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

## WATER-QUALITY RECORDS

PERIOD of RECORD.--Water years, 1964, 1966, June 1968 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, WATER (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 19...	1310	3.8	246	7.3	16.0	10.5	.51	10.8	96	4k	24	99	25.9	
JAN 29...	1455	16	232	7.6	18.0	4.0	.51	13.9	108	5k	9k	79	20.6	
APR 30...	1320	62	209	7.4	12.0	10.5	2.0	11.2	102	204	43	69	18.3	
JUL 30...	1410	5.4	248	8.0	32.0	25.0	1.2	8.7	104	32	116	98	26.2	
Date		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED TOTAL (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 19...	8.43	10.7	2.57	0	98	81	9.1	22.7	<.1	10.5	144	150	<.008	
JAN 29...	6.65	11.9	1.87	0	73	61	11.1	23.2	<.1	9.40	132	128	<.008	
APR 30...	5.73	12.0	1.55	0	64	53	9.0	24.0	<.1	6.09	124	133	<.008	
JUL 30...	7.98	10.2	1.68	0	95	78	7.7	19.3	<.1	7.35	144	141	<.008	
Date		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
OCT 19...	E.03	<.04	.28	.20	--	.009	.009	<.02	3	E.03	18	<.06	<.04	
JAN 29...	.18	<.04	.18	.18	.36	.011	.005	<.02	5	.07	16	<.06	<.04	
APR 30...	.05	<.04	.37	.26	.42	.022	.009	<.02	12	.17	15	<.06	<.04	
JUL 30...	.15	<.04	.29	.25	.44	.026	.019	E.01	5	E.04	18	<.06	<.04	
Date		CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	
OCT 19...	<.8	.08	.6	32	<.08	5.4	.2	.60	<1	<1	.30	5.5		
JAN 29...	<.8	.06	.5	98	.08	9.9	E.2	.21	<1	<1	.21	3.6		
APR 30...	<.8	.08	.7	92	.08	11.1	E.2	.30	<1	4	.14	6.3		
JUL 30...	<.8	.07	.6	66	E.06	13.1	.3	.43	<1	2	.34	4.3		

Value qualifier codes used in this report:  
 k -- Counts outside acceptable range

## Science Challenge

From how many States does the Mississippi River system drain?

Find more earth science information on our website at <http://www.usgs.gov>

The Mississippi River system drains water from 31 states and is the source of 23 percent of the public surface-water supply for the United States.

## NORWALK RIVER BASIN

## 01209700 NORWALK RIVER AT SOUTH WILTON, CT

**LOCATION.**--Lat 41°09'49", long 73°25'11", Fairfield County, Hydrologic Unit 01100006, on right bank at upstream side of bridge on Kent Rd. at South Wilton, 2.5 mi north of Norwalk.

**DRAINAGE AREA.**--30.0 mi<sup>2</sup>.

**PERIOD of RECORD.**--Discharge: Occasional low-flow measurements, water years 1961-62. September 1962 to current year.

Water-quality records: Water years 1976-78.

**REVISED RECORDS.**--WDR CT-80-1: 1968-70 (P), 1971-79 (M,P).

**GAGE.**--Water-stage recorder. Datum of gage is 115.69 ft above sea level.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Occasional regulation at low flow by mill upstream. City of Norwalk diverts an indeterminable amount of water from Streets (Popes) Pond, drainage area 2.36 mi<sup>2</sup>. High flows affected by Spectacle Swamp Detention Reservoir, drainage area, 1.16 mi<sup>2</sup>.

**EXTREMES OUTSIDE PERIOD of RECORD.**--Flood of October 1955 reached a stage of 13.5 ft from floodmarks.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 300 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar 3	1030	344	2.64	May 18	1215	340	2.63
Apr 28	2230	319	2.57	Jun 7	0615	366	2.70
May 14	0030	*556	*3.14				

Minimum discharge, 2.6 ft<sup>3</sup>/s, Aug. 28, gage height, 0.84 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	4.5	7.0	e8.0	23	13	49	101	63	16	9.2	9.2
2	16	4.6	6.1	e7.5	28	13	41	97	41	14	28	59
3	13	5.4	5.6	e7.3	21	207	43	93	34	12	31	45
4	12	5.5	5.0	e7.1	19	107	53	66	29	11	18	38
5	10	5.2	4.8	e6.9	16	67	42	55	43	9.5	14	30
6	9.8	5.7	4.8	8.7	15	52	40	47	60	8.5	9.2	20
7	8.6	5.4	4.8	15	14	43	34	42	281	8.0	6.5	15
8	7.6	5.2	5.1	12	13	35	32	38	132	7.6	5.5	10
9	7.2	5.2	12	11	13	32	31	35	87	7.9	4.8	7.9
10	6.8	5.1	11	11	14	36	35	34	66	12	4.4	7.0
11	6.7	5.0	10	14	39	31	30	31	51	11	4.2	6.1
12	6.8	5.4	9.1	15	26	29	29	44	52	9.0	3.9	5.5
13	6.4	5.1	9.6	15	22	29	29	196	72	7.5	3.7	5.1
14	6.2	6.1	9.3	14	18	29	31	335	81	6.5	3.4	5.0
15	13	4.9	12	13	16	26	38	149	108	6.2	3.2	10
16	8.6	5.7	10	e12	16	25	34	102	80	5.7	4.0	26
17	7.3	5.4	9.7	13	18	24	30	80	71	5.3	4.6	17
18	8.2	5.3	26	14	17	28	27	224	50	5.1	3.5	12
19	6.4	5.4	21	12	15	33	25	162	41	5.1	3.1	9.3
20	5.6	5.6	17	12	15	60	24	121	35	22	3.6	7.5
21	5.4	5.8	14	e11	26	85	24	106	30	19	3.4	6.8
22	5.2	5.7	12	e11	25	56	25	91	26	13	3.0	6.7
23	4.9	5.7	10	e11	21	46	26	76	24	15	2.9	5.9
24	5.0	6.2	32	20	19	39	23	66	20	14	3.2	5.6
25	4.6	8.3	24	28	17	34	27	57	18	9.6	4.1	5.2
26	5.1	14	19	24	15	35	37	51	19	8.1	3.2	5.8
27	5.2	10	16	22	15	100	29	50	24	6.7	2.8	25
28	7.1	9.6	13	20	15	60	106	93	30	6.1	2.8	26
29	3.9	8.7	e11	20	---	49	190	79	22	14	25	18
30	3.7	7.9	e10	20	---	45	100	51	18	15	18	15
31	4.5	---	e9.0	19	---	40	---	45	---	14	14	---
TOTAL	243.8	187.6	369.9	434.5	531	1508	1284	2817	1708	324.4	250.2	464.6
MEAN	7.86	6.25	11.9	14.0	19.0	48.6	42.8	90.9	56.9	10.5	8.07	15.5
MAX	23	14	32	28	39	207	190	335	281	22	31	59
MIN	3.7	4.5	4.8	6.9	13	13	23	31	18	5.1	2.8	5.0
CFSM	0.26	0.21	0.40	0.47	0.63	1.62	1.43	3.03	1.90	0.35	0.27	0.52
IN.	0.30	0.23	0.46	0.54	0.66	1.87	1.59	3.49	2.12	0.40	0.31	0.58

STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

	MEAN	28.1	47.6	69.1	71.6	72.8	107	101	72.6	43.6	20.3	16.9	21.3
MAX	128	131	210	250	165	227	327	384	266	105	63.4	129	
(WY)	1976	1973	1997	1979	1973	1983	1983	1989	1972	1984	1976	1971	
MIN	2.02	4.23	8.04	5.90	18.1	43.7	25.4	15.9	10.4	3.73	1.64	1.64	
(WY)	1965	1965	1999	1981	1980	1982	1985	1986	1965	1966	1965	1964	

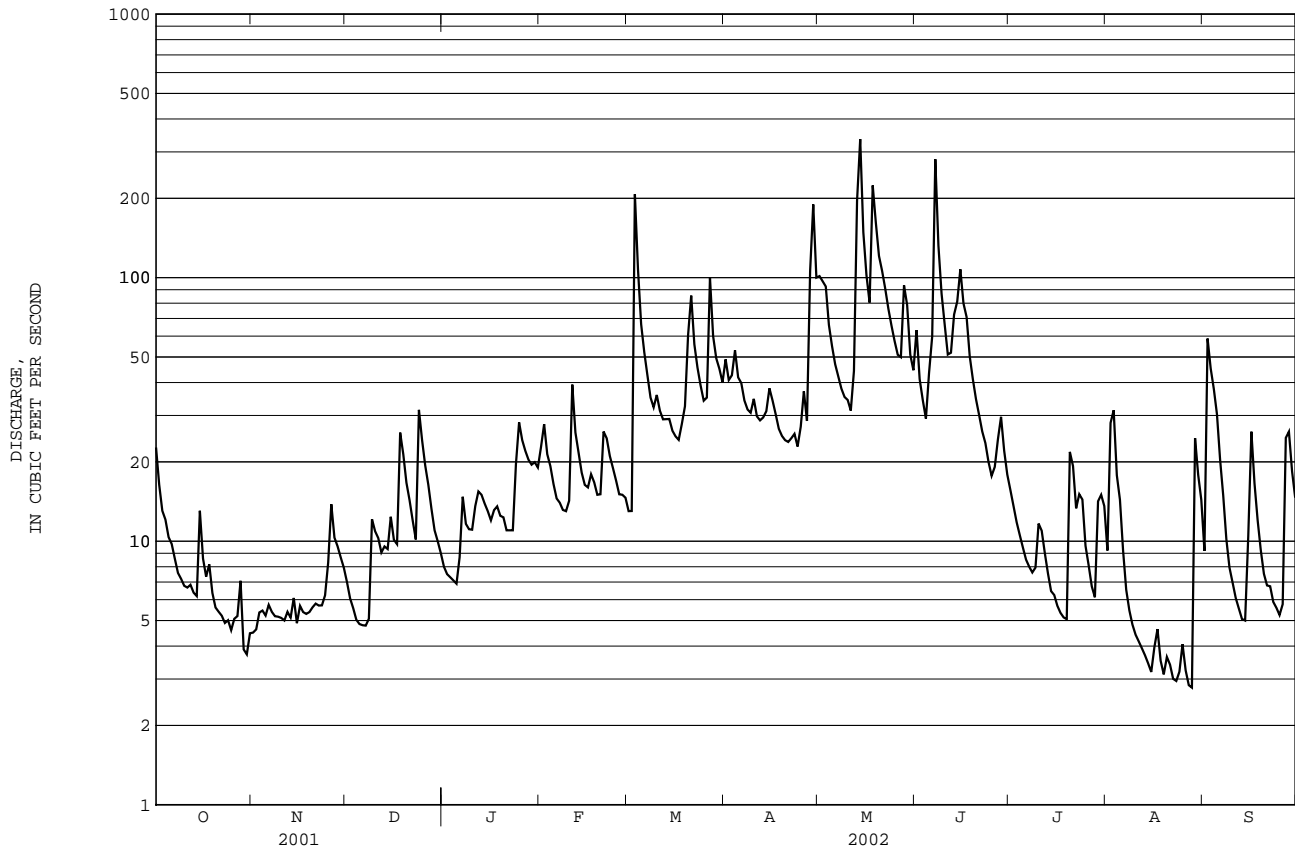
e Estimated.

NORWALK RIVER BASIN

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01209700 NORWALK RIVER AT SOUTH WILTON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1962 - 2002	
ANNUAL TOTAL	14110.2		10123.0			
ANNUAL MEAN	38.7		27.7		55.9	
HIGHEST ANNUAL MEAN					94.6	
LOWEST ANNUAL MEAN					22.9	
HIGHEST DAILY MEAN	445	Mar 22	335	May 14	1650	Apr 10 1980
LOWEST DAILY MEAN	3.0	Aug 9	2.8	Aug 27	0.80	Sep 12 1964
ANNUAL SEVEN-DAY MINIMUM	3.4	Aug 3	3.1	Aug 22	0.91	Sep 7 1964
MAXIMUM PEAK FLOW			556	May 14	2890	Apr 10 1980
MAXIMUM PEAK STAGE			3.14	May 14	6.27	Apr 10 1980
INSTANTANEOUS LOW FLOW			2.6	Aug 28	0.30	Sep 24 1964
ANNUAL RUNOFF (CFSM)	1.29		0.92		1.86	
ANNUAL RUNOFF (INCHES)	17.50		12.55		25.34	
10 PERCENT EXCEEDS	105		61		123	
50 PERCENT EXCEEDS	17		15		32	
90 PERCENT EXCEEDS	4.9		5.1		5.4	



## NORWALK RIVER BASIN

## 01209710 NORWALK RIVER AT WINNIPAU, CT

**LOCATION.**--Lat 41°08'07", long 73°25'36", Fairfield County, Hydrologic Unit 01100007, on Perry Ave., 0.6 mi south of Winnipauk, and 0.3 mi upstream from confluence of Silvermine River.

**DRAINAGE AREA.**--33.0 mi<sup>2</sup>.

**PERIOD of RECORD.**--October 1980 to current year.

**PERIOD of DAILY RECORD.**--

WATER TEMPERATURES: August 1997 to September 1999, January 2002 to current year.

SPECIFIC CONDUCTANCE: January 2002 to current year.

**EXTREMES FOR PERIOD of DAILY RECORD.**--

WATER TEMPERATURES: Maximum, 33.0 C June 28, 1999; minimum 0.0 C on numerous days during winter periods.

SPECIFIC CONDUCTANCE: Maximum, 673 microsiemens Jan. 21, 2002; minimum, 107 microsiemens Sept. 2, 2002.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT													
09...	1045	8.1	1.0	14.9	135	8.8	376	14.0	11.0	71	78	4	61.8
19...	1000	7.6	.70	12.5	113	7.5	362	14.5	11.0	--	--	--	--
30...	1230	4.4	1.0	13.8	128	7.8	367	16.0	12.5	74	89	0	58.1
NOV													
30...	1130	12	--	9.1	81	7.7	419	17.0	10.5	91	110	0	63.1
DEC													
17...	1230	10	1.1	13.0	100	7.6	401	8.5	4.5	81	98	0	62.7
JAN													
29...	1120	22	2.1	14.5	114	8.0	466	20.5	5.0	74	89	0	82.4
FEB													
12...	1205	29	--	15.2	110	7.2	368	17.5	2.0	63	75	0	--
26...	1130	18	2.1	14.7	123	8.2	374	14.5	7.0	68	82	0	58.2
MAR													
21...	1040	92	--	12.7	101	6.9	315	11.5	5.5	47	57	0	--
29...	1050	55	--	12.8	107	6.9	329	14.0	7.5	53	61	0	51.8
APR													
05...	1145	47	--	12.3	104	7.0	328	6.0	8.5	57	70	0	--
17...	1045	34	1.2	11.6	127	8.5	341	33.5	20.0	60	73	0	51.2
23...	1240	30	.85	11.6	105	7.3	344	11.0	11.0	60	73	0	--
30...	1045	98	2.2	11.3	100	7.1	260	12.0	10.0	46	56	0	--
MAY													
10...	1100	39	1.0	10.3	101	7.3	313	24.5	14.5	52	63	0	47.4
17...	1040	87	2.2	9.9	100	7.4	282	26.5	15.5	49	60	0	--
23...	1045	78	2.6	10.7	100	7.1	266	27.0	12.5	44	53	0	--
29...	1110	84	1.8	9.9	103	8.0	247	29.0	17.5	43	52	0	--
JUN													
06...	1205	54	.20	9.5	102	8.0	271	23.0	19.0	52	63	0	--
13...	1030	75	2.5	9.3	98	7.6	247	18.5	17.5	49	60	0	35.5
18...	1030	54	.20	10.1	105	7.9	299	23.0	17.5	60	73	0	--
28...	1100	32	.70	9.3	108	7.9	293	29.5	22.5	60	73	0	--
JUL													
08...	1110	8.6	--	10.8	124	8.1	359	35.5	22.0	65	80	0	--
19...	1110	5.1	.20	11.3	137	8.4	372	31.5	25.0	67	79	1	--
26...	1115	8.6	.25	10.7	118	8.4	359	25.5	20.0	69	84	0	--
30...	1100	16	2.1	9.8	117	8.2	341	34.5	24.0	70	85	0	48.0
AUG													
06...	0945	12	1.2	10.5	124	8.3	346	23.0	23.0	71	87	0	50.0
14...	1130	2.6	.40	14.4	181	9.3	359	39.0	27.0	65	60	10	--
26...	1515	2.6	.10	11.3	128	9.1	355	29.5	22.0	58	67	2	--
27...	1400	--	--	--	--	--	--	--	--	--	--	--	--
30...	1100	22	--	10.1	105	7.5	250	17.0	17.5	47	57	0	--
SEP													
09...	1530	9.5	.20	11.9	135	8.4	366	29.0	21.5	62	70	3	54.7
24...	1000	5.8	.55	12.5	132	8.0	378	24.0	18.0	65	79	0	55.4

## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN,PAR TICULATE WAT FLT SUSP (MG/L AS N) (49570)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	2,4-D METHYL ESTER, WATER FLTRD REC (UG/L) (50470)
OCT													
09...	22.3	<.04	.28	.29	<.008	--	.03	.053	--	--	--	--	<.009
19...	--	<.04	.27	.15	<.008	.05	E.02	.035	.3	<.1	3.9	.3	<.009
30...	23.0	<.04	.18	.20	<.008	--	<.02	.024	--	--	--	--	--
NOV													
30...	21.9	<.04	.31	.18	<.008	.08	<.02	.026	.6	<.1	3.5	.6	<.009
DEC													
17...	20.1	<.04	.28	.43	<.008	.03	<.02	.024	.3	<.1	3.8	.3	<.009
JAN													
29...	21.1	<.04	.22	.59	.012	.03	<.02	.030	.3	<.1	3.3	.3	<.009
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	19.2	<.04	.35	.48	E.006	.10	<.02	.035	.7	<.1	3.0	.7	<.009
MAR													
21...	--	<.04	.43	.52	<.008	--	E.01	.062	--	--	--	--	<.009
29...	17.2	E.03	.50	.55	<.008	.04	.02	.039	.4	<.1	3.3	.4	<.009
APR													
05...	--	<.04	.26	.31	<.008	.03	<.02	.034	.3	<.1	3.4	.3	<.009
17...	16.6	<.04	.35	E.03	<.008	--	E.01	.041	--	--	--	--	<.009
23...	--	<.04	.32	.42	.013	--	.02	.045	--	--	--	--	<.009
30...	--	<.04	.46	.36	<.008	--	.02	.059	--	--	--	--	.028
MAY													
10...	16.6	<.04	.34	.50	E.006	.05	E.02	.055	.5	<.1	3.4	.5	<.009
17...	--	<.04	.36	.49	E.004	--	.02	.061	--	--	--	--	<.009
23...	--	<.04	.30	.48	<.008	--	.02	.047	--	--	--	--	<.009
29...	--	<.04	.36	.45	E.004	--	.02	.066	--	--	--	--	<.009
JUN													
06...	--	E.02	.47	.45	E.007	--	.03	.080	--	--	--	--	<.009
13...	11.6	<.04	.48	.43	E.007	--	.04	.098	--	--	--	--	<.009
18...	--	<.04	.32	.56	E.007	.05	.40	.081	.5	<.1	4.2	.5	<.009
28...	--	<.04	.38	.59	.009	--	.05	.086	--	--	--	--	<.009
JUL													
08...	--	<.04	.24	.59	E.004	.03	.04	.064	.3	<.1	2.5	.3	<.009
19...	--	<.04	.31	.29	E.006	--	.03	.060	--	--	--	--	<.009
26...	--	<.04	.34	.34	E.004	--	.05	.091	--	--	--	--	<.009
30...	17.6	<.04	.35	.37	E.006	--	.07	.113	--	--	--	--	<.009
AUG													
06...	15.3	E.02	.35	.35	E.005	--	.10	.141	--	--	--	--	<.009
14...	--	--	--	--	--	--	--	--	--	--	--	--	<.009
26...	--	--	--	--	--	.04	--	--	.2	<.1	2.8	.2	<.009
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	<.04	.42	.59	E.006	--	.05	.102	--	--	--	--	--
SEP													
09...	24.1	.04	.32	.28	<.008	.06	.03	.058	.4	<.1	4.4	.4	<.009
24...	22.8	<.04	.22	.27	E.004	--	.02	.047	--	--	--	--	<.009

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI- ETHYL ANILINE WAT FLT GF, REC (UG/L) (82660)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	3-KETO CARBO- FURAN WATER FLTRD REC (UG/L) (50295)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)
OCT													
09...	<.02	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005	<.009
19...	<.02	<.02	--	<.006	<2	--	<.007	--	<.02	<.008	<.04	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.02	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005	E.004n
DEC													
17...	<.02	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005	<.007
JAN													
29...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	<.007
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	<.007
MAR													
21...	<.02	<.02	<.006	<.006	<2	<.006	<.100	<.004	<.02	<.008	<.04	<.005	<.007
29...	<.02	<.02	<.006	<.006	<2	<.006	<.059	<.004	<.02	<.008	<.04	<.005	<.007
APR													
05...	<.02	<.02	<.006	<.006	<2	<.006	<.127	<.004	<.02	<.008	<.04	<.005	E.004n
17...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	<.009
23...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	<.007
30...	.11	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.006n
MAY													
10...	.08	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.005n
17...	.03	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	.008
23...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	.007
29...	.03	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.006n
JUN													
06...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	.014
13...	.07	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	<.008
18...	.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.006n
28...	.07	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	.008
JUL													
08...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.004
19...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	<.007
26...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	<.007
30...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.006
AUG													
06...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.006n
14...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.007n
26...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.006n
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	<.006	--	--	<.006	--	<.004	--	--	--	<.005	E.004n
SEP													
09...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	E.007n
24...	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005	.008



## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BENDIO- CARB, WATER FLTRD REC (UG/L) (50299)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENOMYL WATER FLTRD REC (UG/L) (50300)	BEN- SUL- FURON METHYL WAT FLT REC (UG/L) (61693)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAF- FEINE, WATER FLTRD REC (UG/L) (50305)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR- BARYL WATER FLTRD GF, REC (UG/L) (82680)	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO- FURAN WATER FLTRD GF, REC (UG/L) (82674)
OCT													
09...	<.03	<.010	<.004	<.02	M	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
19...	<.03	--	<.004	<.02	E.01	<.03	<.02	--	.021	<.03	--	<.006	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.039	<.03	<.041	<.006	<.020
DEC													
17...	<.03	<.010	<.004	<.02	Mn	<.03	<.02	<.002	.034	<.03	<.041	<.006	<.020
JAN													
29...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.045	<.03	<.041	<.006	<.020
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
MAR													
21...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.049	<.03	E.007	<.006	<.020
29...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.050	<.03	<.041	<.006	<.020
APR													
05...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.030	<.03	<.041	<.006	<.020
17...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
23...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.024	<.03	<.041	<.006	<.020
30...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.030	<.03	E.003	<.006	<.020
MAY													
10...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	E.008	M	E.006	<.006	<.020
17...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.047	<.03	E.005	<.006	<.020
23...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	M	E.008	<.006	<.020
29...	<.03	<.010	.024	<.02	<.01	<.03	<.02	<.002	<.010	E.02	E.043	<.006	<.020
JUN													
06...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.059	.12	E.150	<.006	<.020
13...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	E.01	E.025	<.006	<.020
18...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.022	<.03	E.005	<.006	<.020
28...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	.03	E.075	<.006	<.020
JUL													
08...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
19...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
26...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
30...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
AUG													
06...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
14...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
26...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.037	<.03	<.041	<.006	<.020
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	<.010	--	--	--	--	--	<.002	--	--	E1.17	--	<.020
SEP													
09...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020
24...	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	<.03	<.041	<.006	<.020

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAU, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHLOR- AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORI- MURON, WATER FLTRD REC (UG/L) (50306)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	CY- CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DEETHYL DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04039)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
OCT													
09...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.03	M	<.04	<.005
19...	<.02	<.010	<.04	--	<.01	--	<.01	--	--	--	<.01	<.04	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.003	<.01	<.04	<.005
DEC													
17...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
JAN													
29...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
MAR													
21...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
29...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	--u	<.003	<.006	<.01	<.04	<.005
APR													
05...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
17...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.005	<.01	<.04	<.005
23...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
30...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.003	<.01	<.04	E.002n
MAY													
10...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.004	<.01	<.04	<.005
17...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.005	<.01	<.04	.008
23...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.005	<.01	<.04	.015
29...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.006	<.01	<.04	.006
JUN													
06...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.010	<.01	<.04	.009
13...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.004	<.01	<.04	<.005
18...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.005	<.01	<.04	E.003n
28...	<.02	<.010	<.04	E.005n	<.01	<.018	<.01	<.01	<.003	E.006	<.01	<.04	E.003n
JUL													
08...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
19...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
26...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	.005
30...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.004	<.01	<.04	E.003
AUG													
06...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.003	<.01	<.04	E.002n
14...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006	<.01	<.04	<.005
26...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.004	<.01	<.04	<.005
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	<.005	--	<.018	--	--	<.003	<.006	--	--	<.006
SEP													
09...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.004	<.01	<.04	E.004n
24...	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.005	<.01	<.04	<.005

## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DIPHEN- AMID, WATER, DISS, REC (UG/L) (04033)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUMET- SULAM WATER FLTRD REC (UG/L) (61694)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)
OCT													
09...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
19...	<.01	<.01	--	<.01	<.03	--	.04	--	--	--	<.03	<.01	<.03
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.01	<.01	<.005	<.01	<.03	<.02	.02	<.002	<.009	<.005	<.03	<.01	<.03
DEC													
17...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
JAN													
29...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
MAR													
21...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
29...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
APR													
05...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
17...	<.01	<.01	<.005	<.01	<.03	<.02	E.03	<.002	<.009	<.005	<.03	<.01	<.03
23...	<.01	<.01	<.005	<.01	<.03	<.02	.02	<.002	<.009	<.005	<.03	<.01	<.03
30...	<.01	<.01	<.005	<.01	<.03	<.02	.05	<.002	<.009	<.005	<.03	<.01	<.03
MAY													
10...	<.01	<.01	<.005	<.01	<.03	<.02	E.01	<.002	<.009	<.005	<.03	<.01	<.03
17...	<.01	<.01	<.005	<.01	<.03	<.02	.02	<.002	<.009	<.005	<.03	<.01	<.03
23...	<.01	<.01	<.005	<.01	<.03	<.02	E.01	<.002	<.009	<.005	<.03	<.01	<.03
29...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
JUN													
06...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.021	<.009	<.005	<.03	<.01	<.03
13...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
18...	<.01	<.01	<.005	<.01	<.03	<.02	E.01	<.002	<.009	<.005	<.03	<.01	<.03
28...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
JUL													
08...	<.01	<.01	<.005	<.01	<.03	<.02	.03	<.050	<.009	<.005	<.03	<.01	<.03
19...	<.01	<.01	<.005	<.01	<.03	<.02	E.01	<.002	<.009	<.005	<.03	<.01	<.03
26...	<.01	<.01	<.005	<.01	<.03	<.02	E.01	<.002	<.009	<.005	<.03	<.01	<.03
30...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
AUG													
06...	<.01	<.01	<.011	<.01	<.03	<.02	.05	<.002	<.009	<.005	<.03	<.01	<.03
14...	<.01	<.01	<.005	<.01	<.03	<.02	.02	<.002	<.009	<.005	<.03	<.01	<.03
26...	<.01	<.01	<.005	<.01	<.03	<.02	<.01	<.002	<.009	<.005	<.03	<.01	<.03
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	<.005	--	--	<.02	--	<.002	<.009	<.005	--	--	--
SEP													
09...	<.01	<.01	<.005	<.01	<.03	<.02	.03	<.002	<.009	<.005	<.03	<.01	<.03
24...	<.01	<.01	<.005	<.01	<.03	<.02	.02	<.002	<.009	<.005	<.03	<.01	<.03

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	FONofOS WATER DISS REC (UG/L) (04095)	HYDROXY ATRA- ZINE WATER FLTRD REC (UG/L) (50355)	IMAZ- AQUIN WATER FLTRD REC (UG/L) (50356)	IMAZE- THAPYR WATER FLTRD REC (UG/L) (50407)	IMID- ACLOP- RID WATER FLTRD REC (UG/L) (61695)	LINDANE DIS- SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN- URON WATER FLTRD GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METAL- AXYL WATER FLTRD REC (UG/L) (50359)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)
OCT													
09...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
19...	--	<.008	<.02	<.02	<.007	--	<.01	--	--	<.02	<.01	<.02	<.008
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.003	<.008	E.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
DEC													
17...	<.003	<.008	E.04m	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
JAN													
29...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
MAR													
21...	<.003	<.008	E.02	<.02	<.007	<.004	<.01	<.035	<.027	<.08	<.01	<.02	<.008
29...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
APR													
05...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.10	<.01	<.02	<.008
17...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
23...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
30...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	E.02	<.01	<.02	<.008
MAY													
10...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
17...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	E.01	<.01	<.02	<.008
23...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
29...	<.003	<.008	E.02	<.02	<.007	<.004	<.01	<.035	<.027	E.01	<.01	<.02	<.008
JUN													
06...	<.003	<.008	<.02	<.02	.034	<.004	<.01	<.035	<.027	E.03	<.01	<.02	<.008
13...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
18...	<.003	<.008	E.01	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
28...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
JUL													
08...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	.060	<.02	<.01	<.02	<.008
19...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
26...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
30...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
AUG													
06...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
14...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	E.02	<.008
26...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	E.01	<.008
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.003	--	--	--	--	<.004	--	<.035	<.027	--	--	--	--
SEP													
09...	<.003	<.008	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	<.02	<.008
24...	<.003	E.003	<.02	<.02	<.007	<.004	<.01	<.035	<.027	<.02	<.01	M	<.008

## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MET- SUL- FURON METHYL WAT FLT REC (UG/L) (61697)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NICOSUL FURON WATER FLTRD REC (UG/L) (50364)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)
OCT													
09...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
19...	<.004	--	--	--	--	<.03	--	--	<.01	<.01	<.02	<.02	<.01
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.004	<.050	<.006	<.013	<.006	--u	<.002	<.007	<.01	<.01	<.02	<.02	<.01
DEC													
17...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
JAN													
29...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.004	<.050	<.006	<.013	<.006	E.04m	<.002	<.007	<.01	<.01	<.02	<.02	<.01
MAR													
21...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
29...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
APR													
05...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
17...	<.004	<.050	<.006	E.010n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
23...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
30...	<.004	<.050	<.006	E.001n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
MAY													
10...	<.004	<.050	<.006	E.003n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
17...	<.004	<.050	<.006	E.003n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
23...	<.004	<.050	<.006	E.007n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
29...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
JUN													
06...	<.004	<.050	<.006	E.011n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
13...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
18...	<.004	<.050	<.006	E.004n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
28...	<.004	<.050	<.006	E.006n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
JUL													
08...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
19...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
26...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
30...	<.004	<.050	<.006	E.004	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
AUG													
06...	<.004	<.050	<.006	E.004n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
14...	<.004	<.050	<.006	E.002n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
26...	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	<.050	<.006	<.013	<.006	--	<.002	<.007	--	--	--	--	--
SEP													
09...	<.004	<.050	<.006	E.004n	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01
24...	<.004	<.050	<.100	<.013	<.006	<.03	<.002	<.007	<.01	<.01	<.02	<.02	<.01

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	P,P' DDE (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FLTRD 0.7 U (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U (UG/L) (82685)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)
OCT													
09...	<.003	<.007	<.002	<.010	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010
19...	--	--	--	--	--	--	<.02	--	--	--	--	--	<.010
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.003	<.007	<.002	<.010	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
DEC													
17...	<.003	<.007	<.002	<.010	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010
JAN													
29...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010
MAR													
21...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
29...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010
APR													
05...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
17...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
23...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
30...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	.02	<.004	<.010	<.011	<.02	<.010
MAY													
10...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
17...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010
23...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
29...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
JUN													
06...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
13...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	<.01	<.004	<.010	<.011	<.02	<.010
18...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
28...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	.02	<.004	<.010	<.011	<.02	<.010
JUL													
08...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010
19...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	.05	<.004	<.010	<.011	<.02	<.010
26...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
30...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01	<.004	<.010	<.011	<.02	<.010
AUG													
06...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
14...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	.02	<.004	<.010	<.011	<.02	<.010
26...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	.02	<.004	<.010	<.011	<.02	<.010
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.003	<.010	<.004	<.022	<.006	<.011	--	.03	<.004	<.010	<.011	<.02	--
SEP													
09...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	E.01n	<.004	<.010	<.011	<.02	<.010
24...	<.003	<.010	<.004	<.022	<.006	<.011	<.02	.02	<.004	<.010	<.011	<.02	<.010

## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PROP- ICONA- ZOLE , WATER FLTRD REC (UG/L) (50471)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD REC (UG/L) (38548)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	SULFO- MET- RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL, WATER, FLTRD DISS, REC (UG/L) (04032)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- BENURON METHYL WATER FLTRD (UG/L) (61159)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)
OCT													
09...	<.02	<.008	E.01	<.011	<.009	<.006	<.010	<.034	<.02	<.005	<.002	<.009	<.02
19...	<.02	<.008	E.01	--	<.009	--	<.010	--	--	--	--	<.009	<.02
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.02	<.008	<.02	<.011	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--q	<.02
DEC													
17...	<.02	<.008	<.02	<.011	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
JAN													
29...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
MAR													
21...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
29...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
APR													
05...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
17...	<.02	<.008	E.01	.007	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
23...	<.02	<.008	E.01	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
30...	<.02	<.008	.02	<.005	E.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
MAY													
10...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	<.009	<.02
17...	<.02	<.008	E.01	.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
23...	<.02	<.008	E.01	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
29...	<.02	<.008	E.01	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
JUN													
06...	<.02	<.008	E.01	<.005	<.009	E.01n	<.010	<.034	<.02	<.005	<.002	--u	<.02
13...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
18...	<.02	<.008	E.01	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
28...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
JUL													
08...	<.02	<.008	E.01	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
19...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
26...	<.02	<.008	M	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
30...	<.02	<.008	E.01	<.005	.016	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
AUG													
06...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
14...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
26...	<.02	<.008	<.02	E.005n	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	<.005	--	<.02	--	<.034	<.02	<.005	<.002	--	--
SEP													
09...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02
24...	<.02	<.008	<.02	<.005	<.009	<.02	<.010	<.034	<.02	<.005	<.002	--u	<.02

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3( 4-CHLOR OPHENYL METHYL WAT FLT REC (UG/L) (61692)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1-DI- CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)	123-TRI- CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	2,2-DI- CHLORO- PRO- PANE WAT, WH TOTAL (UG/L) (77170)
OCT													
09...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
19...	--	<.02	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.009	<.02	.17	<.06	E.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
DEC													
17...	<.009	<.02	.25	<.06	E.04	E.02	<.05	<.16	<.04	<.1	<.03	<.03	<.05
JAN													
29...	<.009	<.02	.27	<.06	E.04	E.03	<.05	<.16	<.04	<.1	<.03	<.03	<.05
FEB													
12...	--	--	.23	<.06	E.03	E.02	<.05	<.16	<.04	<.1	<.03	<.03	<.05
26...	<.009	<.02	.30	<.06	E.05	E.02	<.05	<.16	<.04	<.1	<.03	<.03	<.05
MAR													
21...	<.009	<.02	.11	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
29...	<.009	<.02	.18	<.06	E.03	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
APR													
05...	<.009	<.02	.20	<.06	E.03	E.02	<.05	<.16	<.04	<.1	<.03	<.03	<.05
17...	E.001t	<.02	--	--	--	--	--	--	--	--	--	--	--
23...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
30...	<.009	<.02	.13	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
MAY													
10...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
17...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
23...	<.009	<.02	.17	<.06	<.04	E.01	<.05	<.16	<.04	<.1	<.03	<.03	<.05
29...	<.009	<.02	.11	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
JUN													
06...	E.004n	<.02	.13	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
13...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
18...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
28...	<.009	<.02	.11	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
JUL													
08...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
19...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
26...	<.009	<.02	E.10	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
30...	<.009	<.02	E.07	<.06	E.02	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
AUG													
06...	<.009	<.02	--	--	--	--	--	--	--	--	--	--	--
14...	<.009	<.02	E.06	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
26...	E.001t	<.02	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	E.001n	--	E.05	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
SEP													
09...	<.009	<.02	.12	<.06	E.03	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
24...	<.009	<.02	.14	<.06	E.03	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05



## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	2BUTENE TRANS-1 4-DI- CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA- NONE WATER WHOLE TOTAL (UG/L) (77103)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	ACRYLO- NITRILE TOTAL (UG/L) (34215)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI METHYL- WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)
OCT													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
DEC													
17...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
JAN													
29...	<.7	<.7	<7	<1	<.3	<.1	<.1	E.02	<.04	<.03	<.05	<.06	<.2
FEB													
12...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
26...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
MAR													
21...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
29...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
APR													
05...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
29...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
JUN													
06...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
30...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
AUG													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
SEP													
09...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2
24...	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BROMO- BENZENE WATER, WHOLE, (UG/L) (81555)	BROMO- ETHENE WATER UNFLTRD RECOVER (UG/L) (50002)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON DI- SULFIDE WATER WHOLE (UG/L) (77041)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- ETHANE TOTAL (UG/L) (34311)
OCT													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.04	<.03	<.03	<.05	E.01	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
DEC													
17...	<.04	<.03	<.03	<.05	E.01	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
JAN													
29...	<.04	<.03	<.03	<.05	E.03	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
FEB													
12...	<.04	<.03	<.03	<.05	E.03	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
26...	<.04	<.03	<.03	<.05	E.01	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
MAR													
21...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
29...	<.04	<.03	<.03	<.05	E.02	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
APR													
05...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
29...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
JUN													
06...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
30...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
AUG													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
SEP													
09...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1
24...	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1

## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHLORO- FORM TOTAL (UG/L) (32106)	CIS-1,2 -DI- CHLORO- ETHENE TOTAL (UG/L) (77093)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	DIBROMO CHLORO- PROPANE WHOLE TOT.REC (UG/L) (82625)	DI- BROMO- METHANE WHOLE RECOVER (UG/L) (30217)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD REC (UG/L) (81577)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L) (34516)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (UG/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)
OCT													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	E.04	.14	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
DEC													
17...	E.03	.13	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
JAN													
29...	E.03	.14	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
FEB													
12...	E.03	.14	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
26...	E.03	.16	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
MAR													
21...	<.02	E.08b	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
29...	E.02	E.10	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
APR													
05...	E.02	.11	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	E.02	E.06	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	E.02	E.08	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
29...	<.02	E.07	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
JUN													
06...	E.02	.10	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	E.02	E.07	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.02	E.05	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
30...	E.02	E.07	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
AUG													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	E.04	E.02	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.02	E.08	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
SEP													
09...	E.03	E.06	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05
24...	E.03	E.04	<.09	<.5	<.05	<.05	<.18	<.10	<.03	<.09	<.2	<.2	<.05

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAU, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	ISO- DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC- RYLATE ETHYL- WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC- RYLATE METHYL WATER UNFLTRD RECOVER (UG/L) (81597)	METH- ACRYLO- NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) (77297)	METHYL ACRY- LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
OCT													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.08	E.01	E.07	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.3
DEC													
17...	<.08	<.03	.12	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.2
JAN													
29...	E.03	E.02	.15	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.6
FEB													
12...	<.08	E.01	.14	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.4
26...	<.08	E.01	.14	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.3
MAR													
21...	<.08	<.03	E.08b	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1n
29...	<.08	<.03	.10	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.3
APR													
05...	<.08	<.03	E.10	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.08	<.03	E.07	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.08	<.03	E.07	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.2
29...	<.08	<.03	E.05	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1
JUN													
06...	<.08	<.03	E.07	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.08	<.03	E.05	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.08	<.03	E.03	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1
30...	<.08	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1
AUG													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.08	<.03	<.06	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.2
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.08	<.03	E.04	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1
SEP													
09...	<.08	<.03	E.04	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.2
24...	<.08	<.03	E.04	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1

## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL- ISO- BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC TOTAL (UG/L) (85795)	NAPHTH- ALENE TOTAL (UG/L) (34696)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC TOTAL (UG/L) (77356)	1234- TETRA METHYL BENZENE UNFLTRD REC TOTAL (UG/L) (49999)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L) (77173)	PROPENE 3- CHLORO- WATER UNFLTRD RECOVER TOTAL (UG/L) (78109)
OCT													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
30...	<.3	<.2	M	<5.0	<.4	E.04	<.5	<.03	E.02	<.07	<.2	<.1	<.07
DEC													
17...	<.3	<.2	<.2	<5.0	<.4	E.02	<.5	<.03	<.07	<.07	<.2	<.1	<.07
JAN													
29...	<.3	M	M	<5.0	<.4	E.06	<.5	<.03	E.03	<.07	<.2	<.1	<.07
FEB													
12...	<.3	<.2	<.2	<5.0	<.4	E.03	<.5	<.03	<.07	<.07	<.2	<.1	<.07
26...	<.3	<.2	<.2	<5.0	<.4	E.03	<.5	<.03	<.07	<.07	<.2	<.1	<.07
MAR													
21...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
29...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
APR													
05...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.3	<.2	<.2	<5.0	<.4	E.02	<.5	<.03	<.07	<.07	<.2	<.1	<.07
29...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
JUN													
06...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
30...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
AUG													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
SEP													
09...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07
24...	<.3	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAU, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLOR- IDE TOTAL (UG/L) (39175)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT													
09...	--	--	--	--	--	--	--	--	--	63	3.0	.07	--
19...	--	--	--	--	--	--	--	--	--	64	4.0	.08	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	110
NOV													
30...	<.04	.31	<.06	<.05	E.04	<.09	E.07	<.09	<.1	57	3.0	.10	--
DEC													
17...	<.04	.39	<.06	<.05	E.03	<.09	E.08	<.09	<.1	89	3.0	.08	120
JAN													
29...	<.04	.41	<.06	<.05	.13	<.09	E.09	<.09	<.1	93	5.0	.29	--
FEB													
12...	<.04	.37	<.06	<.05	E.07	<.09	E.08	<.09	<.1	--	--	--	--
26...	<.04	.39	<.06	<.05	E.05	<.09	E.08	<.09	<.1	67	2.0	.10	100
MAR													
21...	<.04	.19	<.06	<.05	<.05	<.09	E.04b	<.09	<.1	86	8.0	2.0	--
29...	<.04	.23	<.06	<.05	E.04	<.09	E.05	<.09	<.1	67	3.0	.44	--
APR													
05...	<.04	.23	<.06	<.05	<.05	<.09	E.05	<.09	<.1	75	3.0	.38	--
17...	--	--	--	--	--	--	--	--	--	81	6.0	.55	97
23...	--	--	--	--	--	--	--	--	--	82	4.0	.32	--
30...	<.04	.15	<.06	<.05	E.07	<.09	E.04	<.09	<.1	73	4.0	1.1	--
MAY													
10...	--	--	--	--	--	--	--	--	--	83	7.0	.73	--
17...	--	--	--	--	--	--	--	--	--	79	5.0	1.2	--
23...	<.04	.18	<.06	<.05	E.07	<.09	E.05	<.09	<.1	88	10	2.1	--
29...	<.04	.13	<.06	<.05	E.04	<.09	E.04	<.09	<.1	64	4.0	.90	--
JUN													
06...	<.04	.21	<.06	<.05	E.04	<.09	E.06	<.09	<.1	70	3.0	.43	--
13...	--	--	--	--	--	--	--	--	--	86	8.0	1.6	71
18...	--	--	--	--	--	--	--	--	--	73	5.0	.72	--
28...	<.04	.14	<.06	<.05	E.04	<.09	E.04	<.09	<.1	64	4.0	.35	--
JUL													
08...	--	--	--	--	--	--	--	--	--	71	2.0	.05	--
19...	--	--	--	--	--	--	--	--	--	71	3.0	.04	--
26...	<.04	.13	<.06	<.05	E.02	<.09	E.04	<.09	<.1	71	3.0	.07	--
30...	<.04	.11	<.06	<.05	<.05	<.09	E.04	<.09	<.1	62	3.0	.13	100
AUG													
06...	--	--	--	--	--	--	--	--	--	73	4.0	.13	98
14...	<.04	E.07	<.06	<.05	E.03	<.09	E.02	<.09	<.1	44	3.0	.02	--
26...	--	--	--	--	--	--	--	--	--	57	2.0	.01	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.04	.16	<.06	<.05	E.01	<.09	E.04	<.09	<.1	72	7.0	.41	--
SEP													
09...	<.04	.12	<.06	<.05	E.04	<.09	E.04	<.09	<.1	67	2.0	.05	--
24...	<.04	.11	<.06	<.05	E.01	<.09	E.03	<.09	<.1	67	2.0	.03	110

## 01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT													
09...	--	--	--	--	--	--	--	--	--	--	.57	--	--
19...	--	--	--	--	--	--	--	--	--	--	.42	--	--
30...	29.0	9.03	4.50	28.8	<.1	6.04	208	208	.17	--	.38	.019	3.8
NOV													
30...	--	--	--	--	--	--	--	--	--	--	.50	--	--
DEC													
17...	30.0	10.4	5.09	30.5	.2	7.22	214	230	.18	--	.71	.015	4.0
JAN													
29...	--	--	--	--	--	--	--	--	--	--	.82	--	--
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	26.6	9.15	3.74	26.6	E.1n	4.03	202	200	.24	--	.84	.015	4.0
MAR													
21...	--	--	--	--	--	--	--	--	--	--	.94	--	--
29...	--	--	--	--	--	--	--	--	--	--	1.1	--	--
APR													
05...	--	--	--	--	--	--	--	--	--	--	.57	--	--
17...	25.2	8.18	3.44	25.1	.1	1.35	185	174	.25	--	--	.018	4.5
23...	--	--	--	--	--	--	--	--	--	--	.75	--	--
30...	--	--	--	--	--	--	--	--	--	--	.82	--	--
MAY													
10...	--	--	--	--	--	--	--	--	--	--	.84	--	--
17...	--	--	--	--	--	--	--	--	--	--	.85	--	--
23...	--	--	--	--	--	--	--	--	--	--	.77	--	--
29...	--	--	--	--	--	--	--	--	--	--	.82	--	--
JUN													
06...	--	--	--	--	--	--	--	--	--	--	.93	--	--
13...	18.4	6.06	3.09	18.7	E.1n	8.88	152	150	.35	--	.92	.065	5.6
18...	--	--	--	--	--	--	--	--	--	--	.89	--	--
28...	--	--	--	--	--	--	--	--	--	--	.97	--	--
JUL													
08...	--	--	--	--	--	--	--	--	--	--	.83	--	--
19...	--	--	--	--	--	--	--	--	--	--	.60	--	--
26...	--	--	--	--	--	--	--	--	--	--	.68	--	--
30...	26.3	8.67	4.80	24.2	<.1	5.25	195	193	.32	--	.72	.093	5.0
AUG													
06...	25.6	8.29	4.28	25.8	E.1	6.55	198	132	.33	--	.70	.121	5.2
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	1.0	--	--
SEP													
09...	--	--	--	--	--	--	--	--	--	.27	.59	--	--
24...	28.1	8.57	4.15	28.5	E.08n	3.61	208	206	.21	--	.49	.031	3.5

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAU, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ENTERO- COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	12k	16k	5	.09	40	<.06	<.04	<.8	.15	1.2	77	.11	28.9
NOV													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
17...	37	42	4	.06	38	<.06	E.02	<.8	.18	1.8	85	.22	21.8
JAN													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	7k	8k	5	.26	38	<.06	E.02	<.8	.16	1.5	95	.18	39.2
MAR													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	E11k	E78k	8	.23	38	<.06	E.02	<.8	.17	1.8	120	.13	25.1
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	2900	10000k	15	.17	33	<.06	<.04	<.8	.11	1.9	191	.58	14.8
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	104	364	4	.15	37	<.06	<.04	<.8	.14	2.0	62	.13	21.3
AUG													
06...	31	206	6	.15	38	<.06	<.04	<.8	.15	2.0	98	.15	42.6
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	49	115	2	.18	41	<.06	<.04	<.8	.15	1.3	128	.10	35.6



## 01209710 NORWALK RIVER AT WINNIPAUKE, CT--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
OCT					
09...	--	--	--	--	--
19...	--	--	--	--	--
30...	.7	.17	<1	4	.52
NOV					
30...	--	--	--	--	--
DEC					
17...	.6	1.15	<1	10	.80
JAN					
29...	--	--	--	--	--
FEB					
12...	--	--	--	--	--
26...	.5	.67	<1	7	.81
MAR					
21...	--	--	--	--	--
29...	--	--	--	--	--
APR					
05...	--	--	--	--	--
17...	1.1	.73	<1	5	.69
23...	--	--	--	--	--
30...	--	--	--	--	--
MAY					
10...	--	--	--	--	--
17...	--	--	--	--	--
23...	--	--	--	--	--
29...	--	--	--	--	--
JUN					
06...	--	--	--	--	--
13...	.5	.56	<1	4	.31
18...	--	--	--	--	--
28...	--	--	--	--	--
JUL					
08...	--	--	--	--	--
19...	--	--	--	--	--
26...	--	--	--	--	--
30...	.7	1.03	<1	3	.40
AUG					
06...	1.1	.99	<1	4	.47
14...	--	--	--	--	--
26...	--	--	--	--	--
27...	--	--	--	--	--
30...	--	--	--	--	--
SEP					
09...	--	--	--	--	--
24...	.8	1.44	<1	3	.34

Value qualifier codes used in this report:

b -- Value was extrapolated below  
 k -- Counts outside acceptable range  
 m -- Highly var comp using method, ? prec  
 n -- Below the NDV  
 t -- Below the long-term MDL

Null value qualifier codes used in this report:

q -- Sample discarded: holding time exceeded  
 u -- Unable to determine-matrix interference

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAU, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	1.8	0.1	0.9
5	---	---	---	---	---	---	---	---	---	2.5	1.0	1.8
6	---	---	---	---	---	---	---	---	---	2.6	1.5	1.9
7	---	---	---	---	---	---	---	---	---	2.2	1.3	1.9
8	---	---	---	---	---	---	---	---	---	1.4	0.1	0.9
9	---	---	---	---	---	---	---	---	---	2.1	0.9	1.4
10	---	---	---	---	---	---	---	---	---	4.0	1.8	2.8
11	---	---	---	---	---	---	---	---	---	4.2	3.2	3.7
12	---	---	---	---	---	---	---	---	---	4.0	2.7	3.3
13	---	---	---	---	---	---	---	---	---	4.0	2.6	3.3
14	---	---	---	---	---	---	---	---	---	3.2	2.0	2.6
15	---	---	---	---	---	---	---	---	---	4.7	2.9	3.8
16	---	---	---	---	---	---	---	---	---	4.1	3.1	3.7
17	---	---	---	---	---	---	---	---	---	3.9	2.8	3.3
18	---	---	---	---	---	---	---	---	---	3.4	1.9	2.7
19	---	---	---	---	---	---	---	---	---	1.9	0.1	1.1
20	---	---	---	---	---	---	---	---	---	1.7	0.0	0.9
21	---	---	---	---	---	---	---	---	---	1.3	0.6	1.0
22	---	---	---	---	---	---	---	---	---	3.0	0.9	1.9
23	---	---	---	---	---	---	---	---	---	3.9	1.7	2.7
24	---	---	---	---	---	---	---	---	---	4.9	3.8	4.4
25	---	---	---	---	---	---	---	---	---	5.2	3.6	4.4
26	---	---	---	---	---	---	---	---	---	4.7	2.4	3.6
27	---	---	---	---	---	---	---	---	---	5.1	2.6	3.8
28	---	---	---	---	---	---	---	---	---	5.5	3.1	4.2
29	---	---	---	---	---	---	---	---	---	7.2	4.0	5.5
30	---	---	---	---	---	---	---	---	---	7.6	6.5	7.0
31	---	---	---	---	---	---	---	---	---	7.0	5.0	5.8
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	5.0	4.2	4.7	5.8	2.5	4.1	12.8	10.3	11.2	13.2	8.8	11.2
2	4.2	2.4	3.3	5.6	3.1	4.4	11.3	8.4	9.9	12.2	10.7	11.1
3	3.1	1.2	2.2	7.2	5.5	6.9	14.7	10.3	12.1	13.6	10.7	11.9
4	4.0	1.6	2.7	6.9	4.5	6.0	12.1	8.8	10.5	14.2	9.5	12.0
5	2.9	0.6	1.6	5.0	2.5	3.8	9.6	7.6	8.5	15.9	12.0	14.0
6	3.1	0.7	1.9	5.2	2.7	4.1	9.4	6.4	7.7	16.7	12.5	14.7
7	3.6	2.2	2.8	6.9	4.0	5.6	9.7	5.4	7.5	17.7	14.2	16.0
8	4.7	2.0	3.3	6.8	5.6	6.3	9.9	7.7	8.7	18.6	15.4	16.8
9	4.9	2.7	3.8	10.7	6.7	8.6	14.4	9.0	11.7	16.0	13.0	14.1
10	6.4	2.9	3.8	10.9	6.1	9.4	15.9	12.4	13.9	17.7	12.7	15.0
11	6.3	2.5	4.8	6.3	4.1	5.3	14.6	11.2	12.7	17.5	13.6	15.3
12	2.5	1.0	1.9	6.1	4.3	5.2	12.1	10.3	11.4	14.9	12.9	13.8
13	3.9	1.7	2.6	6.1	5.3	5.7	16.2	11.7	13.8	12.9	11.2	12.2
14	3.0	0.6	1.8	10.5	5.8	8.0	18.0	14.0	15.9	12.7	11.1	11.8
15	3.7	1.2	2.4	9.2	7.9	8.7	19.1	15.4	17.1	13.4	10.7	12.1
16	6.6	3.7	5.0	10.1	7.9	9.1	21.2	16.2	18.7	15.2	11.0	13.3
17	6.1	4.7	5.4	7.9	5.9	6.9	22.5	18.0	20.1	17.0	14.3	15.6
18	5.1	2.8	4.0	6.7	4.9	5.4	23.5	19.0	21.0	15.6	11.7	13.0
19	5.4	2.3	3.9	7.2	4.8	6.0	21.6	18.7	20.0	12.9	10.4	11.6
20	7.0	4.6	5.7	6.6	4.4	5.6	19.2	15.7	17.5	12.0	10.0	11.1
21	9.7	7.0	8.2	8.0	4.0	5.9	15.7	13.2	14.2	12.1	9.6	11.0
22	8.5	6.4	7.3	6.9	3.5	4.7	13.2	10.7	11.8	13.5	9.9	11.8
23	7.8	5.3	6.4	6.2	2.4	4.4	11.5	9.5	10.5	15.0	11.3	13.3
24	6.9	3.9	5.4	7.3	4.3	6.0	14.1	8.5	11.1	16.7	12.6	14.8
25	7.5	4.1	5.8	7.0	6.2	6.6	11.7	9.2	10.5	17.6	14.9	16.0
26	9.7	6.1	7.8	6.3	5.6	5.8	12.1	8.0	9.9	15.2	14.3	14.7
27	9.0	5.1	7.5	8.0	5.9	6.8	13.8	8.7	11.1	17.9	14.5	16.1
28	5.5	2.9	4.3	9.5	5.2	7.4	12.1	10.3	10.9	16.8	15.8	16.4
29	---	---	---	9.9	6.4	8.2	11.0	9.6	10.3	18.8	16.0	17.3
30	---	---	---	11.9	8.9	10.3	11.2	8.7	10.1	20.0	16.5	18.1
31	---	---	---	11.7	9.9	10.9	---	---	---	21.6	17.9	19.6
MONTH	9.7	0.6	4.3	11.9	2.4	6.5	23.5	5.4	12.7	21.6	8.8	14.1

01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	21.3	18.1	19.7	24.7	20.7	22.4	26.8	22.9	24.9	17.3	16.5	16.9
2	21.2	17.9	19.2	25.9	21.4	23.5	27.3	22.9	24.8	17.8	16.6	17.1
3	19.4	15.9	17.5	27.3	22.7	24.8	26.0	22.0	23.8	20.3	17.0	18.5
4	18.6	15.4	16.8	28.1	23.4	25.6	26.8	23.0	24.7	21.4	18.8	19.9
5	19.5	16.5	17.9	25.7	22.1	24.3	25.6	23.4	24.4	21.4	18.4	19.6
6	19.2	17.4	18.6	23.1	20.1	21.7	24.1	21.0	23.1	20.2	17.3	18.6
7	17.4	16.0	16.6	22.9	19.5	21.3	22.4	18.9	20.8	20.2	16.5	18.3
8	17.2	14.8	16.0	23.8	19.7	21.9	22.8	19.0	20.9	20.8	16.8	18.9
9	18.6	14.8	16.8	24.7	21.0	22.7	22.9	18.9	20.9	21.5	17.5	19.7
10	20.3	17.4	18.6	24.4	20.5	22.6	23.3	19.4	21.5	21.2	18.7	20.2
11	21.2	17.5	19.3	22.3	18.6	20.3	24.6	20.3	22.5	21.9	18.4	20.3
12	21.8	19.0	20.3	22.2	17.7	20.0	25.5	21.4	23.5	19.1	16.1	17.5
13	19.0	16.7	17.6	22.2	18.4	20.5	26.5	22.7	24.4	19.0	15.5	17.4
14	16.7	15.4	16.0	21.9	19.6	20.8	27.4	23.3	25.0	20.2	16.8	18.7
15	15.7	15.2	15.4	---	---	---	28.2	23.7	25.3	22.8	19.4	20.2
16	17.4	14.7	15.9	---	---	---	27.8	24.7	25.5	23.6	20.0	20.9
17	18.3	15.3	16.8	---	---	---	27.6	23.6	25.2	21.3	18.6	19.8
18	19.3	15.8	17.5	---	---	---	28.1	24.2	25.8	20.4	17.6	19.0
19	20.6	16.5	18.4	---	---	---	28.2	24.0	25.4	20.0	17.1	18.7
20	21.3	17.2	19.0	---	---	---	26.0	22.4	23.7	20.5	17.6	19.2
21	21.5	17.2	19.1	---	---	---	25.4	21.3	22.7	21.2	18.5	19.9
22	22.4	17.8	19.9	---	---	---	25.3	20.8	22.2	22.1	19.4	20.9
23	23.1	19.2	21.0	---	---	---	23.9	20.9	22.3	21.2	18.7	20.4
24	24.3	20.3	21.9	---	---	---	21.5	19.5	20.6	19.8	16.9	18.4
25	23.2	20.4	21.5	---	---	---	23.9	19.0	20.9	18.6	16.7	17.8
26	23.5	19.8	21.4	---	---	---	23.4	20.0	21.1	17.9	15.9	16.8
27	24.2	20.4	22.1	19.7	18.7	19.2	24.4	19.8	21.5	17.0	15.4	15.9
28	24.2	21.3	22.5	21.3	19.0	20.2	22.8	19.5	20.8	19.4	16.8	17.8
29	24.7	20.6	22.4	24.4	20.4	22.3	19.5	17.4	18.2	17.6	15.4	16.3
30	24.4	20.4	22.1	26.3	22.4	24.1	18.4	16.9	17.5	17.3	14.3	15.8
31	---	---	---	26.4	22.5	24.4	18.6	17.0	17.7	---	---	---
MONTH	24.7	14.7	18.9	---	---	---	28.2	16.9	22.6	23.6	14.3	18.7

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN
	OCTOBER				NOVEMBER				DECEMBER				JANUARY		
1	---	---	---		---	---	---		---	---	---		---	---	---
2	---	---	---		---	---	---		---	---	---		---	---	---
3	---	---	---		---	---	---		---	---	---		---	---	---
4	---	---	---		---	---	---		---	---	---		404	394	399
5	---	---	---		---	---	---		---	---	---		396	387	393
6	---	---	---		---	---	---		---	---	---		392	233	376
7	---	---	---		---	---	---		---	---	---		437	245	338
8	---	---	---		---	---	---		---	---	---		429	393	402
9	---	---	---		---	---	---		---	---	---		693	393	478
10	---	---	---		---	---	---		---	---	---		540	444	493
11	---	---	---		---	---	---		---	---	---		459	415	432
12	---	---	---		---	---	---		---	---	---		442	397	414
13	---	---	---		---	---	---		---	---	---		408	393	399
14	---	---	---		---	---	---		---	---	---		400	392	396
15	---	---	---		---	---	---		---	---	---		395	387	391
16	---	---	---		---	---	---		---	---	---		394	388	391
17	---	---	---		---	---	---		---	---	---		448	394	417
18	---	---	---		---	---	---		---	---	---		426	410	418
19	---	---	---		---	---	---		---	---	---		428	411	420
20	---	---	---		---	---	---		---	---	---		654	403	483
21	---	---	---		---	---	---		---	---	---		673	477	547
22	---	---	---		---	---	---		---	---	---		634	500	537
23	---	---	---		---	---	---		---	---	---		505	453	468
24	---	---	---		---	---	---		---	---	---		556	439	463
25	---	---	---		---	---	---		---	---	---		517	422	455
26	---	---	---		---	---	---		---	---	---		423	409	415
27	---	---	---		---	---	---		---	---	---		426	410	416
28	---	---	---		---	---	---		---	---	---		439	426	434
29	---	---	---		---	---	---		---	---	---		454	439	446
30	---	---	---		---	---	---		---	---	---		445	428	437
31	---	---	---		---	---	---		---	---	---		429	418	423
MONTH	---	---	---		---	---	---		---	---	---		---	---	---

## NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	418	388	405	364	359	362	322	298	306	263	240	253
2	400	388	393	364	337	360	319	311	316	272	228	256
3	394	378	386	346	154	217	315	284	309	268	239	256
4	385	377	381	223	194	206	308	283	293	278	268	273
5	390	383	387	254	223	241	310	304	307	287	271	281
6	395	390	393	264	254	260	319	309	312	294	283	288
7	394	389	391	269	264	266	326	304	312	296	293	295
8	391	384	387	275	269	271	327	315	321	296	294	295
9	393	387	390	277	274	276	327	315	321	296	294	295
10	393	270	383	278	268	272	322	300	307	299	294	296
11	349	292	330	281	270	274	314	301	308	300	298	299
12	368	349	360	287	281	284	319	310	316	300	221	273
13	351	342	347	291	286	288	321	304	312	256	128	223
14	366	351	356	292	286	288	315	286	302	167	134	153
15	373	365	369	297	292	294	318	300	307	194	167	180
16	366	362	364	302	297	299	318	303	314	213	194	203
17	367	348	360	304	300	302	328	316	319	238	213	226
18	367	359	363	353	288	311	336	323	329	238	159	185
19	365	358	362	336	312	322	337	328	333	200	179	187
20	359	353	356	314	239	292	334	321	327	252	200	226
21	355	334	343	330	266	299	331	325	329	261	248	255
22	352	337	344	361	330	348	331	309	321	264	260	262
23	345	336	341	375	360	365	327	318	321	270	264	266
24	351	345	347	380	369	375	333	327	331	273	269	271
25	351	340	348	380	367	374	330	247	307	279	272	274
26	359	339	350	367	294	356	323	279	299	278	272	275
27	364	356	361	295	261	279	323	310	316	283	278	280
28	364	360	362	300	292	295	322	206	252	283	226	258
29	---	---	---	312	300	306	232	193	220	261	245	249
30	---	---	---	327	311	318	256	230	243	294	261	278
31	---	---	---	331	322	326	---	---	---	306	210	293
MONTH	418	270	366	380	154	301	337	193	307	306	128	255
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	295	270	287	352	343	347	376	347	367	363	289	357
2	297	282	290	358	351	353	383	151	325	353	107	213
3	312	297	302	361	355	358	308	193	248	344	250	313
4	323	312	318	366	357	360	333	308	327	319	156	285
5	326	249	285	364	358	360	337	329	332	330	316	325
6	281	205	261	362	357	360	349	329	335	342	330	334
7	205	160	190	361	355	358	355	341	350	355	341	349
8	242	204	221	361	353	357	360	338	351	358	337	353
9	260	239	249	359	292	348	359	326	346	358	312	344
10	281	260	271	341	305	329	357	331	346	362	335	351
11	292	281	287	353	341	346	352	293	326	363	316	342
12	292	224	280	370	353	363	332	259	296	359	329	344
13	264	227	247	371	363	367	306	258	281	353	323	338
14	269	206	245	372	365	369	322	271	302	343	313	329
15	251	209	238	---	---	---	338	277	310	338	179	296
16	270	243	256	---	---	---	316	252	296	253	148	207
17	284	261	272	---	---	---	292	210	272	300	251	287
18	297	284	289	---	---	---	269	208	239	345	299	322
19	312	291	300	---	---	---	287	269	279	355	342	347
20	327	312	315	---	---	---	292	144	268	361	351	355
21	323	317	319	---	---	---	293	261	282	367	357	362
22	322	313	319	---	---	---	318	287	299	369	353	361
23	325	312	318	---	---	---	326	315	320	364	354	360
24	326	316	322	---	---	---	331	202	322	361	345	353
25	330	325	327	---	---	---	324	272	292	358	352	355
26	333	232	320	---	---	---	320	306	313	398	320	354
27	321	246	302	368	365	367	319	306	313	322	176	242
28	312	246	293	370	359	366	329	315	321	343	268	301
29	334	309	327	369	355	364	328	108	211	361	341	352
30	343	332	338	377	333	356	314	202	254	368	358	364
31	---	---	---	377	368	373	362	314	352	---	---	---
MONTH	343	160	286	---	---	---	383	108	306	398	107	326

## Science Challenge

On average, how many gallons of water does each American household use daily?

Find more earth science information on our website at <http://www.usgs.gov>

The average American household generally uses from 80 to 200 gallons of water each day, most of which is used to flush toilets.

## FIVEMILE RIVER BASIN

## 01209761 FIVEMILE RIVER NEAR NEW CANAAN, CT

**LOCATION.**--Lat 41°10'28", long 73°30'43", Fairfield County, Hydrologic Unit 01100006, on right bank, 40 ft downstream from paved driveway leading to private residence, near the cul-de-sac at the end of Indian Rock Rd.

**DRAINAGE AREA.**--1.00 mi<sup>2</sup>

**PERIOD of RECORD.**--May 1998 to current year.

**GAGE.**--Water-stage recorder. Telephone telemetry at station.

**REMARKS.**--Records fair, except those for periods of estimated record, which are poor. Flow regulated from New Canaan Reservoir by Second Taxing District Water Department.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 29 ft<sup>3</sup>/s, June 7, gage height, 2.75 ft; minimum discharge, 0.07 ft<sup>3</sup>/s, Aug. 12, 13, 28, Sept. 14, 15, gage height, 1.27 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.22	e0.14	0.14	0.14	0.38	0.20	0.71	0.94	2.0	0.16	0.10	0.12
2	0.14	e0.14	0.14	0.13	0.35	0.20	0.43	2.0	1.2	e0.15	0.33	0.65
3	0.14	e0.16	0.14	0.13	0.19	3.8	0.62	1.9	0.51	e0.14	0.22	e0.23
4	0.15	e0.18	0.14	0.13	0.19	0.68	0.73	0.63	0.34	e0.13	0.14	e0.18
5	0.16	e0.16	0.14	0.14	0.17	0.34	0.37	0.59	3.3	e0.12	0.12	e0.15
6	0.15	e0.15	0.14	0.16	0.16	0.35	0.33	0.51	6.2	e0.12	0.12	0.13
7	0.14	e0.14	0.14	0.34	0.17	0.32	0.31	0.43	20	e0.12	0.12	0.13
8	0.14	e0.14	0.14	0.21	0.18	0.30	0.31	0.33	5.5	e0.11	0.12	0.13
9	e0.14	e0.14	0.39	0.16	0.17	0.32	0.33	0.35	2.8	e0.11	0.10	0.12
10	e0.14	e0.14	0.19	0.19	0.29	0.56	0.52	0.36	1.9	0.14	0.08	0.12
11	e0.14	e0.14	0.14	0.34	1.2	0.39	0.28	0.29	1.4	0.14	0.09	0.12
12	e0.14	e0.14	0.14	0.33	0.28	0.36	0.27	0.93	2.1	0.14	0.08	0.12
13	e0.14	e0.14	0.14	0.34	0.23	0.47	0.29	6.4	3.9	e0.12	0.09	0.12
14	e0.26	e0.15	0.17	0.44	0.16	0.49	0.35	19	5.3	e0.11	0.10	0.12
15	0.81	e0.16	0.23	0.41	0.18	0.39	0.41	7.6	6.6	e0.10	0.09	0.14
16	0.79	e0.15	0.17	0.36	0.24	0.38	0.28	4.8	3.8	e0.09	0.12	0.23
17	0.99	e0.14	0.18	0.34	0.30	0.33	0.26	3.9	2.5	e0.09	0.13	0.14
18	e0.30	e0.14	0.76	e0.30	0.27	0.54	0.23	16	1.6	e0.09	0.11	0.13
19	e0.15	e0.14	0.24	e0.26	0.25	0.82	0.24	8.6	1.1	0.13	0.11	0.13
20	e0.15	e0.16	0.16	e0.22	0.30	1.7	0.26	5.0	0.94	0.14	0.11	0.13
21	e0.15	e0.15	0.16	e0.22	0.60	1.3	0.28	4.0	0.69	e0.13	0.11	0.14
22	e0.14	e0.14	0.16	0.33	0.33	0.56	0.38	3.4	0.47	e0.13	0.12	0.14
23	e0.14	e0.14	0.16	0.44	0.27	0.54	0.29	2.8	0.32	e0.24	0.12	0.14
24	e0.14	e0.32	0.95	1.0	0.24	0.60	0.24	2.4	0.32	e0.15	0.12	0.13
25	e0.14	e0.60	0.28	0.56	0.21	0.52	0.46	1.9	0.18	e0.12	0.10	0.12
26	e0.14	e0.31	0.16	0.27	0.24	0.70	0.46	1.8	0.27	0.12	0.11	0.13
27	e0.14	0.16	0.15	0.20	0.32	2.1	0.24	1.8	0.64	0.13	0.11	0.30
28	e0.14	0.14	0.14	0.19	0.28	0.66	2.7	2.2	1.5	0.13	0.10	0.18
29	e0.14	0.15	0.14	0.18	---	0.49	2.5	2.1	0.48	0.12	0.21	0.14
30	e0.14	0.16	0.14	0.19	---	0.47	0.87	1.6	0.18	0.11	0.14	0.14
31	e0.14	---	0.14	0.20	---	0.44	---	1.5	---	0.10	0.11	---
TOTAL	6.94	5.22	6.61	8.85	8.15	21.32	15.95	106.06	78.04	3.93	3.83	4.90
MEAN	0.22	0.17	0.21	0.29	0.29	0.69	0.53	3.42	2.60	0.13	0.12	0.16
MAX	0.99	0.60	0.95	1.0	1.2	3.8	2.7	19	20	0.24	0.33	0.65
MIN	0.14	0.14	0.14	0.13	0.16	0.20	0.23	0.29	0.18	0.09	0.08	0.12
CFSM	0.22	0.17	0.21	0.29	0.29	0.69	0.53	3.42	2.60	0.13	0.12	0.16
IN.	0.26	0.19	0.25	0.33	0.30	0.79	0.59	3.95	2.90	0.15	0.14	0.18

## STATISTICS of MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

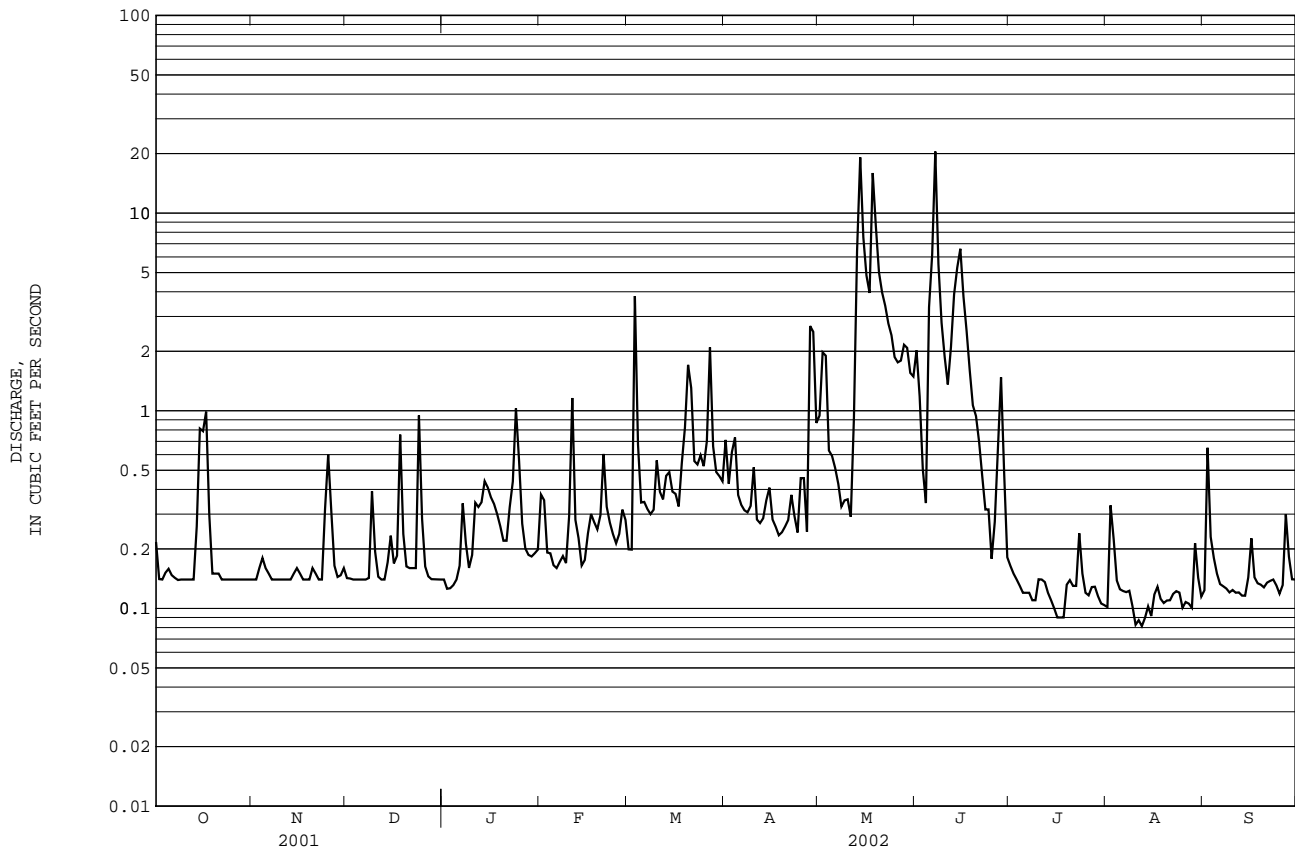
	1998	1999	2000	2001	2002
MEAN	0.60	0.74	0.80	1.05	1.93
MAX	1.62	1.90	2.07	2.26	2.81
(WY)	2000	2000	2000	2000	2001
MIN	0.22	0.17	0.13	0.29	0.29
(WY)	2002	2002	1999	2002	2002

e Estimated.

## 01209761 FIVEMILE RIVER NEAR NEW CANAAN, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1998 - 2002	
ANNUAL TOTAL	652.27		269.80		1.44	
ANNUAL MEAN	1.79		0.74		1.88	
HIGHEST ANNUAL MEAN					0.74	
LOWEST ANNUAL MEAN					1.44	
HIGHEST DAILY MEAN	27	Mar 30	20	Jun 7	27	Mar 30 2001
LOWEST DAILY MEAN	0.06	Sep 13	0.08	Aug 10	0.00	Dec 20 1998
ANNUAL SEVEN-DAY MINIMUM	0.07	Sep 7	0.09	Aug 9	0.07	Sep 7 2001
MAXIMUM PEAK FLOW			29	Jun 7	56	May 19 1999
MAXIMUM PEAK STAGE			2.75	Jun 7	3.28	May 19 1999
INSTANTANEOUS LOW FLOW			a0.07	Aug 12	0.00	Nov 22 1998
ANNUAL RUNOFF (CFSM)	1.79		0.74		1.44	
ANNUAL RUNOFF (INCHES)	24.26		10.04		19.52	
10 PERCENT EXCEEDS	5.2		1.7		3.5	
50 PERCENT EXCEEDS	0.77		0.19		0.63	
90 PERCENT EXCEEDS	0.14		0.12		0.13	

a Also occurred Aug. 13, 28, Sep. 14, 15.



## RIPPOWAM RIVER BASIN

## 01209901 RIPPOWAM RIVER NEAR STAMFORD, CT

**LOCATION.**--Lat 41°03'56", long 73°32'59", Fairfield County, Hydrologic Unit 01100005, on left bank 100 ft upstream from bridge on Bridge St., 2.7 mi downstream from Holts Ice Pond Brook, and 1.7 mi upstream from mouth.

**DRAINAGE AREA.**--34.0 mi<sup>2</sup>.

**PERIOD OF RECORD.**--June 26, 1964 to March 24, 1966, low-flow partial record station; November 1975 to September 1976, at site 0.6 mi upstream. September 1977 to 1982, continuous-record site. October 2, 2001 to September 30, 2002.

**GAGE.**--Water-stage recorder. Datum of gage is 17.73 ft above sea level. Satellite telemetry at station.

**REMARKS.**--Records good, except those for periods of estimated record, which are fair. Flow is continuous, but is completely controlled by storage in Mallard Lake, Trinity Lake Reservoir, Laurel Reservoir, Suscowit Reservoir, and by storage and diversion at North Stamford Reservoir.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 410 ft<sup>3</sup>/s, June 7, gage height, 3.23 ft; minimum discharge, 0.18 ft<sup>3</sup>/s, Aug. 28, 29, gage height, 0.94 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e13	3.1	4.1	e3.8	8.0	4.5	22	35	21	13	1.2	2.8
2	9.5	3.1	3.6	e3.6	8.1	4.6	17	40	17	12	4.8	57
3	7.7	4.9	3.2	e3.4	6.8	60	18	40	18	11	3.4	19
4	6.4	3.8	3.1	e3.1	6.5	34	19	28	12	9.6	1.8	36
5	5.3	3.2	3.1	e3.0	6.1	18	16	23	15	8.7	1.7	13
6	5.0	3.4	2.9	7.6	5.6	14	14	20	55	7.2	1.2	7.8
7	4.8	3.3	3.1	17	5.4	13	14	19	288	5.9	0.89	5.8
8	3.8	3.3	4.1	9.9	5.4	12	13	18	69	5.9	0.77	4.7
9	e3.3	3.1	11	8.3	5.0	11	13	17	39	9.6	0.64	3.9
10	e3.1	3.3	6.6	7.3	7.1	12	18	16	34	9.4	0.55	3.4
11	e3.0	3.2	5.2	8.2	17	10	13	14	26	7.2	0.43	2.9
12	e2.8	3.1	4.3	8.2	9.9	9.7	13	36	40	5.5	0.38	2.6
13	e2.7	3.2	3.9	7.6	8.3	11	13	88	43	4.5	0.36	2.2
14	e2.7	4.2	5.2	6.8	7.2	11	16	149	57	4.6	0.24	2.2
15	8.5	4.1	5.5	6.4	6.5	10	15	51	83	4.8	0.31	11
16	4.7	3.6	4.4	6.0	6.4	9.9	13	35	65	4.4	3.5	37
17	5.3	3.6	4.7	5.9	7.5	9.1	12	29	47	4.0	2.0	13
18	5.5	3.5	16	5.7	6.9	14	11	102	33	3.0	1.5	8.0
19	4.0	3.2	10	5.4	5.9	14	10	60	25	3.6	0.74	6.0
20	3.6	3.2	7.6	6.3	5.8	36	11	37	21	3.9	2.6	4.9
21	e3.2	3.2	6.2	6.3	7.7	40	9.9	31	19	3.4	0.91	4.1
22	e3.0	3.4	5.3	6.2	6.6	23	13	27	17	2.8	0.97	3.6
23	e2.9	3.5	4.8	6.3	6.2	17	11	25	16	3.3	1.6	3.2
24	e2.8	5.6	21	10	5.7	15	9.7	24	15	4.3	1.1	2.9
25	e2.7	9.4	12	11	5.5	14	17	22	13	4.4	1.9	2.7
26	e2.6	11	9.0	8.7	5.4	16	17	19	21	4.0	0.68	4.0
27	2.6	6.3	7.5	7.7	5.4	43	13	19	24	3.5	0.59	24
28	2.6	4.8	6.5	7.0	5.0	27	66	19	34	3.6	0.33	14
29	2.6	4.7	e5.5	6.5	---	20	77	18	28	3.9	20	8.5
30	2.7	4.5	e5.0	6.2	---	18	38	16	16	3.4	5.7	6.2
31	2.9	---	e4.5	6.2	---	18	---	17	---	1.9	3.5	---
TOTAL	135.3	125.8	198.9	215.6	192.9	568.8	562.6	1094	1211	176.3	66.29	316.4
MEAN	4.36	4.19	6.42	6.95	6.89	18.3	18.8	35.3	40.4	5.69	2.14	10.5
MAX	13	11	21	17	17	60	77	149	288	13	20	57
MIN	2.6	3.1	2.9	3.0	5.0	4.5	9.7	14	12	1.9	0.24	2.2
CFSM	0.13	0.12	0.19	0.20	0.20	0.54	0.55	1.04	1.19	0.17	0.06	0.31
IN.	0.15	0.14	0.22	0.24	0.21	0.62	0.62	1.20	1.32	0.19	0.07	0.35

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
MEAN	14.2	23.2	33.5	68.3	42.9	83.5	81.3	65.7	36.6	11.6	9.73	8.66
MAX	30.9	66.0	93.5	175	76.1	169	225	193	94.9	17.2	26.3	17.1
(WY)	1978	1978	1978	1979	1982	1980	1980	1978	1982	1981	1978	1979
MIN	4.36	4.19	6.42	5.52	6.89	18.3	18.8	19.3	9.74	5.69	1.41	3.45
(WY)	2002	2002	2002	1981	2002	2002	2002	1981	1981	2002	1981	1980

e Estimated.



## 01209901 RIPPOWAM RIVER NEAR STAMFORD, CT--Continued

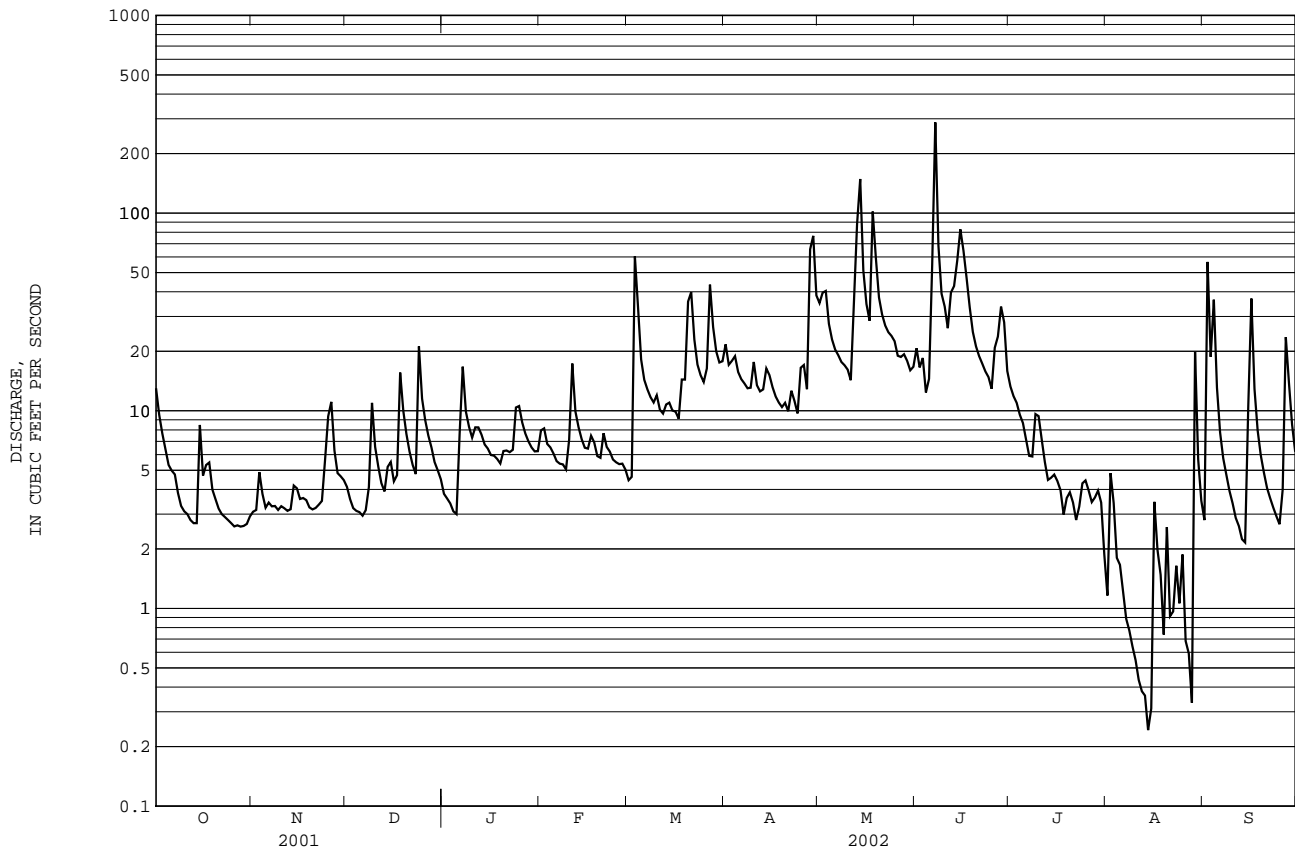
## SUMMARY STATISTICS

## FOR 2002 WATER YEAR

## WATER YEARS 1977 - 2002

ANNUAL TOTAL	4863.89				
ANNUAL MEAN	13.3			39.9	
HIGHEST ANNUAL MEAN				69.4	1978
LOWEST ANNUAL MEAN				13.3	2002
HIGHEST DAILY MEAN	288	Jun 7		1590	Apr 10 1980
LOWEST DAILY MEAN	0.24	Aug 14		0.24	Aug 14 2002
ANNUAL SEVEN-DAY MINIMUM	0.42	Aug 9		0.42	Aug 9 2002
MAXIMUM PEAK FLOW	410	Jun 7			
MAXIMUM PEAK STAGE	3.23	Jun 7			
INSTANTANEOUS LOW FLOW	<sup>a</sup> 0.18	Aug 28		0.18	Aug 28 2002
ANNUAL RUNOFF (CFSM)	0.39			1.17	
ANNUAL RUNOFF (INCHES)	5.32			15.96	
10 PERCENT EXCEEDS	30			86	
50 PERCENT EXCEEDS	6.6			17	
90 PERCENT EXCEEDS	2.7			3.6	

<sup>a</sup> Also occurred Aug. 29.



## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2002

STATION NUMBER AND STREAM	TRIBUTARY TO	LOCATION	DRAIN- AGE AREA (MI <sup>2</sup> )	PREVIOUS MEASURE- MENTS (WATER YEARS)	MEASUREMENTS	
					DATE	DISCHARGE (FT <sup>3</sup> /S)
THAMES RIVER BASIN						
01119384 Willimantic River	Shetucket River	Lat 41°48'56", long 72°19'01", Tolland County, at UConn well field pumping sta- tion near Mansfield Depot.	98.0	1991-01	10/11/01 03/12/02 07/17/02	13.8 80.6 27.0
01120800 Natchaug River	Shetucket River	Lat 41°48'03", long 72°07'07", Windham County, at Bean Hill Road, 0.5 mi northeast of Chaplin.	67.9	1962-64 1994 <sup>a</sup> 1998-01	11/20/01 01/18/02 03/03/02 05/06/02 07/30/02 08/22/02 09/06/02	11.6 27.6 188 108 12.1 10.6 9.67
01124151 Quinebaug River	Shetucket River	Lat 41°56'29", long 71°53'58", Windham County, on left bank, 350 ft downstream from concrete V-notch weir below flood- control dam at West Thompson.	172	1966-89 <sup>b</sup> 1990-01	03/19/02 07/22/02	170 53.2
01127749 Oxoboxo Brook	Stony Brook	Lat 41°27'08", long 72°08'09", New Lon- don County, 300 ft below Rockland Pond, at the downstream side of the tunnel under Rand Whitney Corrugated Box Company at Montville.	9.50	1998-01	11/30/01 01/09/02 05/14/02 07/26/02	2.92 5.01 111 1.30
CONNECTICUT RIVER BASIN						
01184444 Broad Brook	Scantic River	Lat 41°55'08", long 72°27'57", Tolland County, at Meadow Brook Road, near Ellington.	2.57		09/18/02	0.59
01184445 Kimballs Brook	Broad Brook	Lat 41°54'52", long 72°27'13", Tolland County, on State Route 83, near Ellington.	1.23		09/18/02	0.03
01184448 Kibbe Brook	Broad Brook	Lat 41°55'44", long 72°27'59", Tolland County, behind Ellington High School, at Ellington.	0.40		09/18/02	0.07
01184457 Muddy Brook	Broad Brook	Lat 41°55'00", long 72°28'53", Tolland County, at Meadow Brook Road, near Ellington.	1.34		09/19/02	0.02
01184460 Broad Brook	Scantic River	Lat 41°54'56", long 72°29'05", Tolland County, at Hatheway Road, at Ellington.	7.73		09/19/02	2.61
01184465 Broad Brook	Scantic Rvier	Lat 41°55'16", long 72°30'17", Tolland County, at Broad Brook Road, near Broad Brook.	9.25		09/19/02	4.28
01184468 Creamery Brook	Broad Brook	Lat 41°55'33", long 72°30'30", Tolland County, on State Route 140, near Broad Brook.	1.11		09/19/02	0.21
01184470 Broad Brook	Scantic River	Lat 41°55'53", long 72°31'17", Hartford County, on East Street, at Melrose.	11.7	1992	09/20/02	5.55
01184475 Unnamed Tributary	Broad Brook	Lat 41°55'23", long 72°32'01", Hartford County, at railroad tressel, 1/2 mi north of Depot Road, at Broad Brook.	0.91		09/20/02	0.23

<sup>a</sup> Used as discharge for water quality.<sup>b</sup> Operated as a continuous-record gaging station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2002

STATION NUMBER AND STREAM	TRIBUTARY TO	LOCATION	DRAIN- AGE AREA (MI <sup>2</sup> )	PREVIOUS MEASURE- MENTS (WATER YEARS)	MEASUREMENTS	
					DATE	DISCHARGE (FT <sup>3</sup> /S)
CONNECTICUT RIVER BASIN continued						
01184488 Chestnut Brook	Broad Brook	Lat 41°54'52", long 72°32'52", Hartford County, on State Route 191, at Broad Brook.	1.87		09/20/02	0.17
01189030 Pequabuck River	Farmington River	Lat 41°43'00", long 72°50'25", Hartford County, at bridge on Meadow Road at Farmington, 0.2 mi upstream from mouth.	57.2	1993-01 <sup>a</sup>	10/16/01 12/12/01 02/07/01 04/22/02 06/06/02 07/09/02 08/26/02 09/16/02	38.4 29.6 29.9 34.2 96.5 27.6 19.6 59.6
01192050 Hockanum River	Connecticut River	Lat 41°51'57", long 72°29'12", Tolland County, at culvert on State Route 74, near Rockville.	25.5	1995-01 <sup>a</sup>	10/29/01 12/11/01 02/05/02 04/08/02 06/04/02 07/10/02 08/05/02 09/23/02	5.78 45.0 7.73 9.04 11.9 15.5 8.30 27.3
01192704 Mattabeset River	Connecticut River	Lat. 41°36'29", long 72°42'56", Hartford County, at State Route 372, at East Berlin.	48.1	1995-98 <sup>b</sup> 1999-01 <sup>a</sup>	12/04/01 02/06/02 04/02/02 07/11/02	12.3 15.4 50.6 11.7
QUINNIPIAC RIVER BASIN						
01196210 Honeypot Brook	Quinnipiac River	Lat 41°31'56", long 72°53'25", New Haven County, at bridge on Creamery Road, 1.3 mi upstream from Quinnipiac River, at Cheshire.	2.06	1989-01	11/26/01 05/06/02 07/10/02	2.30 2.84 2.02
01196215 Honeypot Brook	Quinnipiac River	Lat 41°32'33", long 72°52'40", New Haven County, at culverts on South Central Connecticut Regional Water Authority dirt road, 0.2 mi above Quinnipiac River near Cheshire.	3.15	1989-01	11/26/01 05/06/02 05/06/02 07/08/02	2.33 2.96 3.17 1.34
01196222 Quinnipiac River	Long Island Sound	Lat 41°31'45", long 72°51'50", New Haven County, at bridge on Cheshire Street, 3 mi west of Meriden.	69.6	1974-01 <sup>a</sup>	10/10/01 12/06/01 02/04/02 04/03/02 06/18/02 07/16/02 08/14/02 09/12/02	46.4 39.0 49.1 92.6 122 32.2 20.7 26.8
MILL RIVER BASIN						
01196590 Mill River	Long Island Sound	Lat 41°27'13", long 72°54'02", New Haven County, 200 ft upstream Old Lane Road, 3.0 mi south of Cheshire.	5.90	1978-01	07/19/02 09/18/02	1.07 .649
01196600 Willow Brook	Mill River	Lat 41°27'35", long 72°55'06", New Haven County, at bridge on Mt. Sanford Road, at corner of Harrison Avenue, 2.4 mi south of Cheshire.	9.34	1960-76 <sup>c</sup> 1978-01	07/19/02 09/18/02	4.11 5.68

<sup>a</sup> Used as discharge for water quality.<sup>b</sup> Operated as a continuous-record gaging station.<sup>c</sup> Operated as a low-flow and crest-stage station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2002

STATION NUMBER AND STREAM	TRIBUTARY TO	LOCATION	DRAIN- AGE AREA (MI <sup>2</sup> )	PREVIOUS MEASURE- MENTS (WATER YEARS)	MEASUREMENTS	
					DATE	DISCHARGE (FT <sup>3</sup> /S)
HOUSATONIC RIVER BASIN						
01198125 Housatonic River	Long Island Sound	Lat 42°04'29", long 73°20'02", Litchfield County, 3.4 mi above State Line, on State Route 7 bridge.	465	1991-01 <sup>a</sup>	12/13/01 05/10/02 08/15/02	155 670 106
01200600 Housatonic River	Long Island Sound	Lat 41°35'35", long 73°27'00", Litchfield County, at Boardmans Bridge, 2.3 mi northwest of New Milford.	1022	1993-01 <sup>a</sup>	01/07/02 05/10/02 07/26/02	773 1310 517
01203000 Shepaug River	Housatonic River	Lat 41°32'59", long 73°19'49", Litchfield County, at Wellers Bridge, 1.2 mi south- west of Roxbury.	132	1931-71 <sup>b</sup> 1972-84 <sup>c</sup> 1985-01 <sup>a</sup>	11/28/01 03/27/02 06/11/02 09/13/02	24.8 381 483 17.5
01203520 Nonewaug River	Pomperaug River	Lat 41°36'46", long 73°10'17", Litchfield County, 500 ft east of road leading to Bethlehem.	3.67	1965-66 1979	08/12/02 09/09/02	0.20 0.18
01203540 East Spring Brook	Nonewaug River	Lat 41°36'44", long 73°10'35", Litchfield County, near Bethlehem.	5.85	1965-66 1979	08/12/02 09/09/02	2.04 1.98
01203562 Lewis Atwood Brook	Nonewaug River	Lat 41°36'02", long 73°09'25", Litchfield County, at State Route 6 & 202, near Water- town.	1.36		08/12/02	0.07
01203565 Lewis Atwood Brook	Nonewaug River	Lat 41°35'46", long 73°10'12", Litchfield County, at adandoned bridge, near Minor- town.	2.28		08/12/02	0.14
01203638 East Meadow Brook	Nonewaug River	Lat 41°33'19", long 73°11'48", Litchfield County, at Nature Preserve, at Woodbury.	2.39		08/12/02	0.02
01203642 Nonewaug River	Pomperaug River	Lat 41°33'33", long 73°12'36", Litchfield County,above Ricker Pond, at Hotchkiss- ville.	25.9		08/12/02 09/09/02	3.57 4.07
01203680 Weeke- peemee River	Pomperaug River	Lat 41°37'47", long 73°13'23", Litchfield County, 500 feet East of State Route 132, near Bethlehem.	3.95		08/09/02 09/10/02	0.41 0.47
01203699 Wood Creek	Weeke- peemee River	Lat 41°37'45", long 73°13'45", Litchfield County, at Arch Bridge Road, near Bethle- hem.	3.39		08/09/02 09/10/02	0.35 0.59
01203735 Weeke- peemee River	Pomperaug River	Lat 41°35'07", long 73°13'57", Litchfield County, above Carmel Hill Brook, near Bethlehem.	12.4		08/09/02 09/10/02	1.66 1.05
01203740 Carmel Hill Brook	Weeke- peemee River	Lat 41°35'04", long 73°14'04", Litchfield County, near Hotchkissville.	2.36	1965-66	08/09/02	0.20
01203800 Sprain Brook	Weeke- peemee River	Lat 41°34'10", long 73°13'36", Litchfield County, at State Route 67, near Hotchkiss- ville.	10.7	1965-73 1981	08/09/02 09/10/02	2.28 1.18

<sup>a</sup> Used as discharge for water quality.<sup>b</sup> Operated as a continuous-record gaging station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2002

STATION NUMBER AND STREAM	TRIBUTARY TO	LOCATION	DRAIN- AGE AREA (MI <sup>2</sup> )	PREVIOUS MEASURE- MENTS (WATER YEARS)	MEASUREMENTS	
					DATE	DISCHARGE (FT <sup>3</sup> /S)
HOUSATONIC RIVER BASIN continued						
01203802 Weeke- peemee River	Pomperaug River	Lat 41°34'01", long 73°13'07, Litchfield County, at State Route 47, at Hotchkissville.	15.7	1981	09/10/02	2.69
01203807 Pomperaug River	Housatonic River	Lat 41°32'56", long 73°13'01", Litchfield County, at Three River Meadow Park, at Woodbury.	54.5	1978	08/09/02 09/10/02	10.2 6.82
01203825 Good Hill Brook	Pomperaug River	Lat 41°32'27", long 73°14'04", Litchfield County, on Grassy Hill Road, near Wood- bury.	1.87		08/08/02	0.30
01203833 Hessey Brook	Pomperaug River	Lat 41°32'29", long 73°13'24", Litchfield County, at State Route 317, near Woodbury.	5.81	1981	08/08/02	0.96
01203848 Unnamed Tributary	Pomperaug River	Lat 41°31'50", long 73°12'00", Litchfield County, near Pomperaug.	0.616	1981	08/08/02	0.10
012038481 Unnamed Brook	Pomperaug River	Lat 41°31'38", long 73°11'38", Litchfield County, on Meadow Avenue, near Pomper- aug.	0.074		08/08/02	0.001
012038485 Unnamed Brook	Pomperaug River	Lat 41°31'33", long 73°12'25", Litchfield County, at South Pomperaug Avenue, at Pomperaug.	1.27	1978	08/08/02	0.10
012038495 South Brook	Pomperaug River	Lat 41°31'29", long 73°11'04", Litchfield County, at Sherman Hill Road, near Pomp- eraug.	0.75		08/08/02	0.13
01203851 South Brook	Pomperaug River	Lat 41°31'25", long 73°12'13", Litchfield County, at South Pomperaug Avenue, near Woodbury.	2.03	1978	08/08/02	0.14
01203860 Pomperaug River	Housatonic River	Lat 41°30'05", long 73°13'07", New Haven County, at State Route 67, near Southbury.	68.9	1978	08/09/02 09/10/02	14.2 10.2
01203880 South Branch Bullett Hill Brook	Pomperaug River	Lat 41°28'42", long 73°12'54", New Haven County, at Southbury.	1.81		08/08/02	0.75
01203885 Bullett Hill Brook	Pomperaug River	Lat 41°29'13", long 73°11'30", New Haven County, on Old Waterbury Road, at South- bury.	0.78		08/08/02	0.07
01203890 Bullett Hill Brook	Pomperaug River	Lat 41°28'44", long 73°12'55", New Haven County, above junction of South Branch, at Southbury.	1.15		08/08/02	0.25
01203950 Bullett Hill Brook	Pomperaug River	Lat 41°28'54", long 73°13'11", New Haven County, at Southbury.	1.70	1978	08/08/02	1.01

<sup>a</sup> Used as discharge for water quality.<sup>b</sup> Operated as a continuous-record gaging station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2002

STATION NUMBER AND STREAM	TRIBUTARY TO	LOCATION	DRAIN- AGE AREA (MI <sup>2</sup> )	PREVIOUS MEASURE- MENTS (WATER YEARS)	MEASUREMENTS  DATE	DISCHARGE (FT <sup>3</sup> /S)
<b>HOUSATONIC RIVER BASIN continued</b>						
01208013 Branch Brook	Naugatuck River	Lat 41°39'13", long 73°05'43", Litchfield County, on right bank 140 ft upstream from U.S. Route 6, and 1.7 mi southwest of Thomaston.	20.8	1975-89 <sup>b</sup> 1990-01	11/26/01 01/29/02 03/13/02 05/24/02 07/18/02	2.55 2.52 9.79 15.1 0.50
01208049 Naugatuck River	Housatonic River	Lat 41°36'55", long 73°03'30", New Haven County, at bridge on Frost Bridge Road, 4.5 mi north of Waterbury near Waterville.	136	1980-01 <sup>a</sup>	12/07/01 04/22/02 06/11/02	24.0 142 292
01208171 Naugatuck River	Housatonic River	Lat 41°33'26", long 73°03'17", New Haven County, at West Main Street, at Waterbury.	174	1983-01	12/28/01 04/29/02 06/20/02 08/27/02	78.3 753 197 20.5
01208370 Naugatuck River	Housatonic River	Lat 41°30'06", long 73°02'55", New Haven County, at footbridge, below Fulling Mill Brook, at Union City.	215		05/02/02 06/12/02 07/02/02 08/13/02 09/10/02	563 400 127 63.6 73.9
01208420 Hop Brook	Naugatuck River	Lat 41°30'21", long 73°03'31", New Haven County, on left bank 30 ft downstream from Porter Avenue bridge, 400 ft east of State Route 63, 0.8 mi downstream from Hop Brook Lake, 1.4 mi north of Naugatuck, and 0.6 mi upstream of mouth.	16.3	1970-89 <sup>b</sup> 1990-01	12/28/01 05/20/02 07/29/02 08/27/02	6.09 45.0 2.70 0.97
01208736 Naugatuck River	Housatonic River	Lat 41°19'50", long 73°04'47", New Haven County, at bridge on Division Street, at Ansonia-Derby town line.	309	1974-01 <sup>a</sup>	11/05/01 01/16/02 06/11/02 07/01/02 08/12/02 09/09/02	283 208 570 199 88.7 89.8
<b>NORWALK RIVER BASIN</b>						
01209549 Ridgefield Brook	Norwalk River	Lat 41°18'52", long 73°28'45", Fairfield County, 400 ft upstream of State Route 35, at exit of Connecticut Department of Environmental Protection flood control structure at Ridgefield.	3.70	1993-95 1999-01	11/29/01 04/02/02 05/08/02 07/17/02	1.66 4.39 2.45 0.52
01209710 Norwalk River	Long Island Sound	Lat 41°08'07", long 73°25'36", Fairfield County, on Perry Ave., 0.6 mi south of Winnipauk, and 0.3 mi upstream from confluence of Silvermine River.	33.0	1981-01 <sup>a</sup>	01/22/02 06/07/02 06/13/02 07/08/02 08/06/02	13.0 368 76.3 9.43 10.8
<b>MIANUS RIVER BASIN</b>						
01211010 Brothers Brook	Mianus River	Lat. 41°03'26", long 73°35'58", Fairfield County, at Montgomery Pinetum Park.	1.39	2001	04/24/02	1.01
01211040 Greenwich Creek	Long Island Sound	Lat 41°03'56", long 73°36'26", Fairfield County, on bridge on Hill Street, near Cos Cob.	0.69		04/24/02	0.54

<sup>a</sup> Used as discharge for water quality.<sup>b</sup> Operated as a continuous-record gaging station.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2002

STATION NUMBER AND STREAM	TRIBUTARY TO	LOCATION	DRAIN- AGE AREA (MI <sup>2</sup> )	PREVIOUS MEASURE- MENTS (WATER YEARS)	MEASUREMENTS	
					DATE	DISCHARGE (FT <sup>3</sup> /S)
GREENWICH CREEK BASIN						
01211110 Unnamed Tributary	Greenwich Creek	Lat. 41°02'34", long 73°36'59", Fairfield County, on Old Church Road, at Cos Cob.	2.19	2001	10/09/01	0.73
					10/11/01	0.69
					11/06/01	0.50
					11/30/01	1.15
					04/10/02	2.98
					05/20/02	6.21
					06/07/02	36.6
					06/13/02	1.85
					08/06/02	0.04
					09/24/02	0.84
HORSENECK BROOK BASIN						
01211140 Horseneck Brook	Long Island Sound	Lat. 41°06'50", long 73°38'00", Fairfield County, at Lower Cross Road, near Stanwich.	0.52	2001	04/24/02	0.22
BYRAM RIVER BASIN						
01211450 Byram River	Long Islandnd Sound	Lat 41°05'41", long 73°42'16", Fairfield County, at bridge on Bedford Road, near North Greenwich.	9.10		04/25/02	4.55
01211699 East Branch Byram River	Byram River	Lat. 41°05'58", long 73°41'02", Fairfield County, below Lake Meade, 200 feet upstream from John Street, at Round Hill.	1.65	2001	11/06/01	0.19
					11/30/01	0.62
					01/03/02	0.29
					02/05/02	0.69
					04/10/02	1.98
					04/24/02	1.09
					05/20/02	5.53
					06/07/02	25.6
					08/06/02	0.16
					09/24/02	0.07
01212550 Unnamd Brook	Byram River	Lat 41°01'39", long 73°39'39", Fairfield County, 100ft upstream of mouth.	1.40		04/25/02	0.84
01212600 Byram River	Long Island Sound	Lat 41°01'38", long 73°39'39", Fairfield County, below Unnamed Tributary, at Pem- berwick.	27.3		04/25/02	13.6

<sup>a</sup> Used as discharge for water quality.<sup>b</sup> Operated as a continuous-record gaging station.

## ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## BROAD BROOK BASIN

## 01184444 BROAD BROOK AT MEADOW BROOK RD NR ELLINGTON, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
SEP 18...	1030	.59	2.57	762	7.8	75	6.7	292	14.0	E.03	.27	.15	4.74
						NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)			

## 01184445 KIMBALLS BROOK AT RT 83 NR ELLINGTON, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
SEP 18...	1210	.03	1.23	760	8.9	92	6.8	160	17.0	<.04	.24	.15	.60
					NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)				

## 01184448, KIBBE BROOK AT ELLINGTON, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
SEP 18...	1400	.07	0.40	761	3.0	32	7.1	368	18.0	2.09	3.9	6.2	1.90
					NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)				



## ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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## BROAD BROOK BASIN

## 01184457 MUDDY BROOK AT MUDDY BROOK RD AT ELLINGTON, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
SEP 19...	0930	.02	1.34	764	7.2	71	6.9	314	14.0	<.04	.15	.14	4.83
Date					NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)				
SEP 19...					.009	5.0	.035	.03	.046				

## 01184460, BROAD BROOK AT HATHEWAY RD AT ELLINGTON, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
SEP 19...	1035	2.6	7.73	763	7.1	69	7.2	466	15.0	.10	.32	.37	7.10
Date					NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)				
SEP 19...					.115	7.5	.040	.03	.054				

## 01184465 BROAD BROOK AT BROAD BROOK RD NR BROAD BROOK, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
SEP 19...	1230	4.3	9.25	764	10.3	105	7.7	412	16.0	<.04	.17	.21	6.63
Date					NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)				
SEP 19...					E.006	6.8	.046	.04	.054				

## ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## BROAD BROOK BASIN

## 01184468 CREAMERY BROOK AT RT 140 NR BROAD BROOK, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
SEP 19...	1345	.21	1.11	764	11.8	122	7.6	212	17.0	<.04	E.09	.11	2.47
					NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)				
					SEP 19...	.008	2.6	.023	.02	.029			

## 01184470 BROAD BROOK AT MELROSE, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	
SEP 20...	0930	128	5.5	11.7	762	9.8	98	7.6	406	15.0	<.04	.13	.18
						NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)		
						SEP 20...	5.57	E.005	5.7	.045	.04	.049	

## 01184475 UNNAMED TRIBUTARY TO BROAD BROOK AT BROAD BROOK, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CON-DUCTANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
SEP 20...	1200	.23	0.91	764	9.6	96	7.4	283	15.0	<.04	E.06	.14	4.29
					NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)				
SEP 20...					.008	4.4	.021	E.01	.026				

## BROAD BROOK BASIN

01184488 CHESTNUT BROOK AT RT 191 AT BROAD BROOK, CT

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	DRAIN-AGE AREA (SQ. MI.) (81024)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N) (00608)	NITRO-GEN,AM- MONIA + ORGANIC DIS. (MG/L) AS N) (00623)	NITRO-GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N) (00631)
SEP 20...	1300	.17	1.87	764	9.5	98	7.6	196	17.0	<.04	E.07	E.09	2.74

Date	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L) AS P) (00666)	ORTHO- PHOS-PHATE, DIS-SOLVED (MG/L) AS P) (00671)	PHOS-PHORUS TOTAL (MG/L) AS P) (00665)
SEP 20...	E.004	.037	.03	.042

## ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- ifier	Station number	Date	Time	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
HARTFORD COUNTY										
CT- A 318	414742072490301	06-13-02	1200	155	205	4040	6.5	753	7.5	64
CT- F 344	414144072505101	05-30-02	1200	247	185	4040	5.5	757	<.1	1
CT- GL 240	414245072333901	06-10-02	1200	39	190	4090	.1	758	10.9	102
CT- S 400	413710072553001	07-29-02	1200	84.5	215	4040	2.0	750	8.2	84
CT- S 401	413848072512701	05-23-02	1200	110	170	4040	8.7	760	6.6	61
LITCHFIELD COUNTY										
CT- SY 28	420100073243001	07-22-02	1200	273	825	4040	.3	740	.7	6
CT- WY 65	413225073130401	06-06-02	1200	75	250	4040	1.5	750	7.1	69
NEW HAVEN COUNTY										
CT-NHV 204	412350072513001	07-25-02	1200	24	50	4040	.7	765	.7	4
NEW LONDON COUNTY										
CT- GS 95	413200071531101	07-15-02	1200	80	240	4040	1.1	750	9.3	73
CT- OL 91	412001072192001	07-30-02	1200	20.6	60	4040	.5	750	6.0	58
WINDHAM COUNTY										
CT- CY 146	413945071571001	07-17-02	1200	52.00	217	4040	.4	756	4.6	43
CT- WK 232	415547071563501	09-18-02	1200	60	310	4040	.1	753	3.5	94

Local ident- ifier	Date	PH WATER FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
HARTFORD COUNTY											
CT- A 318	06-13-02	6.5	168	20.0	10.5	93	29.8	4.43	.65	13.8	56
CT- F 344	05-30-02	8.0	684	28.0	12.0	350	111	16.7	2.42	12.9	67
CT- GL 240	06-10-02	6.2	150	22.0	12.5	47	15.1	2.24	.85	14.2	26
CT- S 400	07-29-02	5.3	53	30.0	16.0	18	4.37	1.66	.46	2.98	9
CT- S 401	05-23-02	7.3	414	27.0	11.5	200	68.0	7.31	.70	9.63	155
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	7.1	603	30.0	12.0	6	.98	.837	.95	157	294
CT- WY 65	06-06-02	6.2	126	23.5	11.0	49	13.8	3.50	1.46	10.2	28
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	6.1	256	25.0	16.5	59	16.2	4.44	.98	23.6	31
NEW LONDON COUNTY											
CT- GS 95	07-15-02	5.9	86	25.0	11.5	21	6.13	1.31	.57	6.37	14
CT- OL 91	07-30-02	5.9	97	30.0	13.0	27	7.57	1.90	1.03	7.44	21
WINDHAM COUNTY											
CT- CY 146	07-17-02	7.5	290	23.0	12.0	220	75.9	7.60	4.25	7.31	75
CT- WK 232	09-18-02	6.2	201	25.0	13.0	71	21.9	3.90	3.29	7.69	31

## GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	HYDRO- GEN SULFIDE TOTAL (MG/L AS H2S) (71875)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
		HARTFORD COUNTY									
CT- A 318	06-13-02	68	0	E.03	28.0	<.1	11.5	17.5	U	<.04	E.06
CT- F 344	05-30-02	79	0	.03	4.30	E.1	16.4	298	U	.05	<.10
CT- GL 240	06-10-02	32	0	E.02	15.5	<.1	12.6	8.4	U	<.04	<.10
CT- S 400	07-29-02	11	0	E.02	3.47	<.1	10.2	8.7	U	<.04	<.10
CT- S 401	05-23-02	185	0	.03	22.4	<.1	20.2	15.5	U	<.04	<.10
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	359	0	.05	13.9	E.1	8.85	29.2	U	E.03	E.07
CT- WY 65	06-06-02	34	0	<.03	18.2	<.1	14.1	13.1	U	E.03	<.10
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	38	0	E.02	43.8	.1	9.81	17.8	U	<.04	E.07
NEW LONDON COUNTY											
CT- GS 95	07-15-02	18	0	<.03	9.06	<.1	14.5	5.1	U	<.04	<.10
CT- OL 91	07-30-02	26	0	E.03	9.46	<.1	14.6	8.6	U	<.04	<.10
WINDHAM COUNTY											
CT- CY 146	07-17-02	88	0	.04	10.4	<.1	15.5	117	U	E.03	E.10
CT- WK 232	09-18-02	38	0	E.03	29.8	<.1	18.4	10.7	U	<.04	<.10
Local ident- i- fier	Date	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	E COLI, MI MF, WATER (COL/ 100 ML) (90901)	TOTAL COLI- FORM, MI MF, WATER (COL/ 100 ML) (90900)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
		HARTFORD COUNTY									
CT- A 318	06-13-02	1.06	<.008	.02	.3	<.1	3	<.1	<.05	<.2	79
CT- F 344	05-30-02	<.05	<.008	.05	<.3	<.1	<.1	<.1	<.05	1.9	28
CT- GL 240	06-10-02	2.25	<.008	.12	.3	<.1	<.1	<.1	<.05	<.2	97
CT- S 400	07-29-02	.92	<.008	.02	E.3	<.1	<.1	5	.05	<.2	24
CT- S 401	05-23-02	3.85	<.008	E.01	E.3	<.1	<.1	<.1	<.05	.9	53
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	2.84	<.008	.02	.4	<.1	<.1	<.1	E.03	<.2	<.1
CT- WY 65	06-06-02	2.06	<.008	<.02	.4	<.1	4	<.1	E.04	<.2	13
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	.70	.014	E.02	1.7	<.1	<.1	41	E.03	E.1	103
NEW LONDON COUNTY											
CT- GS 95	07-15-02	.55	<.008	E.03	E.2	<.1	<.1	<.1	E.04	E.1	4
CT- OL 91	07-30-02	.38	<.008	E.02	.4	<.1	<.1	7	<.05	<.2	17
WINDHAM COUNTY											
CT- CY 146	07-17-02	E6.15	<.008	E.03	E.4	<.1	<.1	<.1	<.05	E.1	28
CT- WK 232	09-18-02	1.68	<.008	<.02	E.3	<.1	<.1	<.1	E.03	.3	20

## ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## GROUND-WATER QUALITY

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier		Date	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
			HARTFORD COUNTY									
CT- A	318	06-13-02	<.06	161	<.04	<.8	.09	20.0	33	.20	1.9	2.3
CT- F	344	05-30-02	<.06	521	<.04	<.8	.22	1.5	120	<.08	4.4	200
CT- GL	240	06-10-02	<.06	28	<.04	<.8	.04	9.3	E7	.18	.6	.5
CT- S	400	07-29-02	<.06	E7	<.04	<.8	.02	74.4	15	1.55	<.3	5.3
CT- S	401	05-23-02	<.06	58	<.04	E.6	.15	2.7	<10	1.48	4.6	.5
LITCHFIELD COUNTY												
CT- SY	28	07-22-02	<.06	<7	<.04	<.8	E.01	2.4	<10	E.05	3.6	E.1
CT- WY	65	06-06-02	<.06	16	E.02	<.8	.03	1.9	29	.13	2.2	.7
NEW HAVEN COUNTY												
CT-NHV	204	07-25-02	.07	79	.17	<.8	.81	10.2	65	.20	E.3	431
NEW LONDON COUNTY												
CT- GS	95	07-15-02	<.06	E5	<.04	<.8	.02	24.8	14	.86	E.2	5.3
CT- OL	91	07-30-02	<.06	E6	<.04	<.8	.06	65.8	<10	1.08	.5	3.4
WINDHAM COUNTY												
CT- CY	146	07-17-02	<.06	10	<.04	<.8	.18	6.7	E6	.68	1.9	.2
CT- WK	232	09-18-02	<.06	8	<.04	E.5	.06	38.7	E9	.61	1.8	1.3
Local ident- i- fier	Date	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	
		HARTFORD COUNTY										
CT- A	318	06-13-02	<.2	.78	<.3	<1	149	<.04	1.5	5	<.006	<.006
CT- F	344	05-30-02	4.4	<.06	<.3	<1	1870	<.04	1.5	2	<.006	<.006
CT- GL	240	06-10-02	E.1	.82	<.3	<1	54.4	<.04	.6	19	<.006	<.006
CT- S	400	07-29-02	<.2	.21	<.3	<1	17.7	<.04	.3	3	<.006	<.006
CT- S	401	05-23-02	E.2	.72	<.3	<1	393	<.04	9.7	1	<.006	<.006
LITCHFIELD COUNTY												
CT- SY	28	07-22-02	.7	E.05	<.3	<1	1.47	<.04	1.3	<1	<.006	<.006
CT- WY	65	06-06-02	<.2	.13	E.3	<1	76.1	<.04	.4	104	<.006	<.006
NEW HAVEN COUNTY												
CT-NHV	204	07-25-02	.2	.97	.6	<1	54.1	<.04	7.8	5	<.006	<.006
NEW LONDON COUNTY												
CT- GS	95	07-15-02	E.1	<.06	<.3	<1	34.1	.08	<.2	2	<.006	<.006
CT- OL	91	07-30-02	.3	.23	<.3	<1	55.6	<.04	.3	4	<.006	<.006
WINDHAM COUNTY												
CT- CY	146	07-17-02	E.1	.42	.6	<1	165	<.04	1.4	4	<.006	<.006
CT- WK	232	09-18-02	E.2	1.09	E.2	<1	95.3	<.04	.6	10	<.006	<.006

## GROUND-WATER QUALITY

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLTD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
HARTFORD COUNTY											
CT- A 318	06-13-02	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
CT- F 344	05-30-02	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
CT- GL 240	06-10-02	<.004	<.005	.035	<.010	<.002	<.041	<.020	<.005	<.018	<.003
CT- S 400	07-29-02	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
CT- S 401	05-23-02	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.004	<.005	.012	<.010	<.002	<.041	<.020	<.005	<.018	<.003
CT- WY 65	06-06-02	<.004	<.005	.025	<.010	<.002	<.041	<.020	<.005	<.018	<.003
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
CT- OL 91	07-30-02	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.004	<.005	E.286	<.010	<.002	<.041	<.020	<.007	<.018	<.003
CT- WK 232	09-18-02	<.004	<.005	E.004	<.010	<.002	<.041	<.020	<.005	<.018	<.003
Local ident- i- fier	Date	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
HARTFORD COUNTY											
CT- A 318	06-13-02	E.004	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
CT- F 344	05-30-02	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
CT- GL 240	06-10-02	E.012	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
CT- S 400	07-29-02	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
CT- S 401	05-23-02	E.003	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	E.009	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
CT- WY 65	06-06-02	E.008	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
CT- OL 91	07-30-02	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
WINDHAM COUNTY											
CT- CY 146	07-17-02	E.182	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035
CT- WK 232	09-18-02	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035

## ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## GROUND-WATER QUALITY

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			METHYL- AZIN- PHOS	METHYL- PARA- THION	METO- LACHLOR	METRI- BUZIN	MOL- INATE	NAPROP- AMIDE			PEN- ULATE
Local ident- i- fier	Date	MALA- THION, DIS- SOLVED (UG/L) (39532)	WAT FLT 0.7 U GF, REC (UG/L) (82686)	WAT FLT 0.7 U GF, REC (UG/L) (82667)	WATER DISSOLV (UG/L) (39415)	SENCOR WATER DISSOLV (UG/L) (82630)	FLTRD 0.7 U GF, REC (UG/L) (82671)	FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	FILTRED 0.7 U GF, REC (UG/L) (82669)
HARTFORD COUNTY											
CT- A 318	06-13-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
CT- F 344	05-30-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
CT- GL 240	06-10-02	<.027	<.050	<.006	E.011	<.006	<.002	<.007	<.003	<.010	<.004
CT- S 400	07-29-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
CT- S 401	05-23-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
CT- WY 65	06-06-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
CT- OL 91	07-30-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.027	<.050	<.006	E.021	<.006	<.002	<.007	<.003	<.010	<.004
CT- WK 232	09-18-02	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004
Local ident- i- fier	Date	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
HARTFORD COUNTY											
CT- A 318	06-13-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
CT- F 344	05-30-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
CT- GL 240	06-10-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.010	<.02
CT- S 400	07-29-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
CT- S 401	05-23-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
CT- WY 65	06-06-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	.014	<.02
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
CT- OL 91	07-30-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
CT- WK 232	09-18-02	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02



## GROUND-WATER QUALITY

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1-DI- CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)
		HARTFORD COUNTY									
CT- A 318	06-13-02	<.034	<.02	<.005	<.002	<.009	<.03	<.06	<.04	<.04	<.05
CT- F 344	05-30-02	<.034	<.02	<.005	<.002	<.009	<.03	<.06	<.04	<.04	<.05
CT- GL 240	06-10-02	<.034	<.02	<.005	<.002	<.009	<.03	<.06	<.04	<.04	<.05
CT- S 400	07-29-02	<.034	<.02	<.005	<.002	<.009	<.03	<.06	<.04	<.04	<.05
CT- S 401	05-23-02	<.034	<.02	<.005	<.002	<.009	E.07	<.06	<.04	<.04	<.05
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.034	<.02	<.005	<.002	<.009	E.06	<.06	<.04	<.04	<.05
CT- WY 65	06-06-02	<.034	<.02	<.005	<.002	<.009	E.04	<.06	<.04	<.04	<.05
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.034	<.02	<.005	<.002	<.009	<.03	<.06	<.04	<.04	<.05
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.034	<.02	<.005	<.002	<.009	<.03	<.06	<.04	<.04	<.05
CT- OL 91	07-30-02	<.034	<.02	<.005	<.002	<.009	<.03	<.06	<.04	<.04	<.05
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.034	<.02	<.005	<.002	<.009	E.04	<.06	<.04	<.04	<.05
CT- WK 232	09-18-02	<.034	<.02	<.005	<.002	<.009	<.03	<.06	<.04	<.04	<.05
Local ident- i- fier	Date	123-TRI- CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	2,2-DI- CHLORO- PRO- PANE WAT, WH TOTAL (UG/L) (77170)	2BUTENE TRANS-1 4-DI- CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA- NONE WATER WHOLE TOTAL (UG/L) (77103)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	ACRYLO- NITRILE TOTAL (UG/L) (34215)
		HARTFORD COUNTY									
CT- A 318	06-13-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
CT- F 344	05-30-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
CT- GL 240	06-10-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
CT- S 400	07-29-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
CT- S 401	05-23-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
CT- WY 65	06-06-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
CT- OL 91	07-30-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1
CT- WK 232	09-18-02	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<.7	<.1

## ANALYSIS OF SAMPLES AT MISCELLANEOUS SITES

## GROUND-WATER QUALITY

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	1,2,3- TRI- CHLORO- BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI- METHYL- WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI- METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI- METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)
		HARTFORD COUNTY									
CT- A 318	06-13-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
CT- F 344	05-30-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
CT- GL 240	06-10-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
CT- S 400	07-29-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
CT- S 401	05-23-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
CT- WY 65	06-06-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.3	<.1	<.1	<.06	<.04	<.03	E.04	<.06	<.2	<.04
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
CT- OL 91	07-30-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
CT- WK 232	09-18-02	<.3	<.1	<.1	<.06	<.04	<.03	<.05	<.06	<.2	<.04
Local ident- i- fier	Date	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	BROMO- ETHENE WATER UNFLTRD RECOVER (UG/L) (50002)	BROMO- FORM UNFLTRD TOTAL (UG/L) (32104)	CARBON DI- SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	CHLORO- BENZENE TOTAL (UG/L) (34301)
		HARTFORD COUNTY									
CT- A 318	06-13-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
CT- F 344	05-30-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
CT- GL 240	06-10-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
CT- S 400	07-29-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
CT- S 401	05-23-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
CT- WY 65	06-06-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
CT- OL 91	07-30-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03
CT- WK 232	09-18-02	<.03	<.03	<.05	<.04	<.04	<.1	<.06	<.07	<.06	<.03

## GROUND-WATER QUALITY

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- ETHANE TOTAL (UG/L) (34311)	CHLORO- FORM TOTAL (UG/L) (32106)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	DIBROMO CHLORO- PROPANE WHOLE TOT.REC (UG/L) (82625)	DI- BROMO- METHANE WATER RECOVER (UG/L) (30217)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)
		HARTFORD COUNTY									
CT- A 318	06-13-02	<.2	<.1	E.07	<.04	<.09	<.5	<.05	<.05	<.18	<.10
CT- F 344	05-30-02	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05	<.18	<.10
CT- GL 240	06-10-02	<.2	<.1	E.08	<.04	<.09	<.5	<.05	<.05	<.18	<.10
CT- S 400	07-29-02	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05	<.18	<.10
CT- S 401	05-23-02	<.2	<.1	E.08	<.04	<.09	<.5	<.05	<.05	<.18	<.10
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05	<.18	<.10
CT- WY 65	06-06-02	<.2	<.1	E.01	<.04	<.09	<.5	<.05	<.05	<.18	<.10
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.2	<.1	E.06	<.04	<.09	<.5	<.05	<.05	<.18	<.10
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05	<.18	<.10
CT- OL 91	07-30-02	<.2	<.1	.74	<.04	<.09	<.5	<.05	<.05	<.18	<.10
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.2	<.1	E.04	<.04	<.09	<.5	<.05	<.05	<.18	<.10
CT- WK 232	09-18-02	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05	E.80	<.10
Local ident- i- fier	Date	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L) (34516)	ETHANE HEXA- CHLORO- WATER UNFLTRD RECOVER (UG/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)		FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)
		HARTFORD COUNTY									
CT- A 318	06-13-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
CT- F 344	05-30-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
CT- GL 240	06-10-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
CT- S 400	07-29-02	<.03	<.09	<.2	<.2	<.05	.19	<.03	<.06	<2	<.1
CT- S 401	05-23-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
CT- WY 65	06-06-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
CT- OL 91	07-30-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1
CT- WK 232	09-18-02	<.03	<.09	<.2	<.2	<.05	<.08	<.03	<.06	<2	<.1

## ANALYSIS OF SAMPLES AT MISCELLANEOUS SITES

## GROUND-WATER QUALITY

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	ISO- DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC- RYLATE ETHYL- WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC- RYLATE METHYL WATER UNFLTRD RECOVER (UG/L) (81597)	METH- ACRYLO- NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO- CHLORO- WAT UNFLTRD REC (UG/L) (77297)	METHYL ACRY- LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)
		HARTFORD COUNTY									
CT- A 318	06-13-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2
CT- F 344	05-30-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2
CT- GL 240	06-10-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	1.0	<.3	<.2
CT- S 400	07-29-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	1.1	<.3	<.2
CT- S 401	05-23-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1	<.3	<.2
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2
CT- WY 65	06-06-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.2	<.3	<.2
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.2	<.3	<.2
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2
CT- OL 91	07-30-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1	<.3	<.2
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2
CT- WK 232	09-18-02	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2
Local ident- i- fier	Date	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO- BUTYL KETONE WAT. WH. TOTAL (UG/L) (78133)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTH- ALENE TOTAL (UG/L) (34696)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	1234- TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L) (77173)
		HARTFORD COUNTY									
CT- A 318	06-13-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
CT- F 344	05-30-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
CT- GL 240	06-10-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
CT- S 400	07-29-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
CT- S 401	05-23-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
LITCHFIELD COUNTY											
CT- SY 28	07-22-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
CT- WY 65	06-06-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
NEW HAVEN COUNTY											
CT-NHV 204	07-25-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
NEW LONDON COUNTY											
CT- GS 95	07-15-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
CT- OL 91	07-30-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
WINDHAM COUNTY											
CT- CY 146	07-17-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
CT- WK 232	09-18-02	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1

## GROUND-WATER QUALITY

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	PROPENE 3- CHLORO- WATER		TETRA- CHLORO- ETHYL- ENE	TOLUENE O-ETHYL WATER	TOLUENE P-CHLOR WATER	TRANS- 1,3-DI- CHLORO- PROPENE	TRI- CHLORO- ETHYL- ENE	TRI- CHLORO- FLUORO- METHANE	VINYL CHLO- RIDE		
		UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	TOTAL (UG/L) (34475)	UNFLTRD RECOVER (UG/L) (77220)	UNFLTRD REC (UG/L) (77277)	TOTAL (UG/L) (34010)	TOTAL (UG/L) (34699)	TOTAL (UG/L) (39180)	TOTAL (UG/L) (34488)	TOTAL (UG/L) (39175)	
		HARTFORD COUNTY										
CT- A	318	06-13-02	<.07	<.04	<.03	<.06	<.05	<.05	<.09	<.04	<.09	<.1
CT- F	344	05-30-02	<.07	<.04	<.03	<.06	<.05	<.05	<.09	<.04	<.09	<.1
CT- GL	240	06-10-02	<.07	<.04	E.01	<.06	<.05	E.01	<.09	<.04	<.09	<.1
CT- S	400	07-29-02	<.07	<.04	E.01	<.06	<.05	<.05	<.09	<.04	<.09	<.1
CT- S	401	05-23-02	<.07	<.04	<.03	<.06	<.05	E.02	<.09	<.04	<.09	<.1
LITCHFIELD COUNTY												
CT- SY	28	07-22-02	<.07	<.04	<.03	<.06	<.05	<.05	<.09	<.04	<.09	<.1
CT- WY	65	06-06-02	<.07	<.04	E.04	<.06	<.05	<.05	<.09	<.04	<.09	<.1
NEW HAVEN COUNTY												
CT-NHV	204	07-25-02	<.07	<.04	E.02	<.06	<.05	E.02	<.09	<.04	<.09	<.1
NEW LONDON COUNTY												
CT- GS	95	07-15-02	<.07	<.04	<.03	<.06	<.05	<.05	<.09	<.04	<.09	<.1
CT- OL	91	07-30-02	<.07	<.04	<.03	<.06	<.05	<.05	<.09	<.04	<.09	<.1
WINDHAM COUNTY												
CT- CY	146	07-17-02	<.07	<.04	E.06	<.06	<.05	E.01	<.09	<.04	<.09	<.1
CT- WK	232	09-18-02	<.07	<.04	<.03	<.06	<.05	E.01	<.09	<.04	<.09	<.1

			ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	GROSS BETA, DIS- SOLVED (PCI/L) AS CS-137) (03515)	RA-224 WATER FLTRD (PCI/L) (50833)	RADIUM 226, DIS- SOLVED (PCI/L) (09503)	RADIUM 228 DIS- SOLVED AS RA-228) (81366)	RADON 222 TOTAL (PCI/L) (82303)	URANIUM NATURAL DIS- SOLVED (UG/L) AS U) (22703)	
HARTFORD COUNTY										
CT-	A	318	06-13-02	.9	.9	--	--	--	1190	.13
CT-	F	344	05-30-02	4.8	5.0	--	--	--	900	1.64
CT-	GL	240	06-10-02	.6	2.0	--	--	--	170	<.02
CT-	S	400	07-29-02	1.2	2.6	--	--	--	1020	<.02
CT-	S	401	05-23-02	-.7	1.1	--	--	--	--	.40
LITCHFIELD COUNTY										
CT-	SY	28	07-22-02	4.0	3.5	--	--	1	660	5.69
CT-	WY	65	06-06-02	.3	1.9	--	--	--	2240	.22
NEW HAVEN COUNTY										
CT-NHV		204	07-25-02	2.7	5.2	--	--	--	270	.07
NEW LONDON COUNTY										
CT-	GS	95	07-15-02	.7	.9	--	--	M	520	<.02
CT-	OL	91	07-30-02	1.2	1.5	--	--	--	1070	.04
WINDHAM COUNTY										
CT-	CY	146	07-17-02	7.3	5.5	--	--	2	860	1.44
CT-	WK	232	09-18-02	M	3.9	M	M	M	760	.11

## GROUND-WATER LEVELS

## FAIRFIELD COUNTY

413007073250501. Local number, BD 8.

**LOCATION.**--Lat 41°30'07", long 73°25'05", Hydrologic Unit 01100005, 50 ft south and 10 ft east of parking area along State Rt. 7 at north town line, Brookfield; New Milford quadrangle. Owner: Connecticut Department of Transportation.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 1.25 in, depth 53 ft, plastic casing to 50 ft, well point 50 to 53 ft.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 255 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 0.40 ft above land-surface datum.

**PERIOD OF RECORD.**--December 1966 to current year.

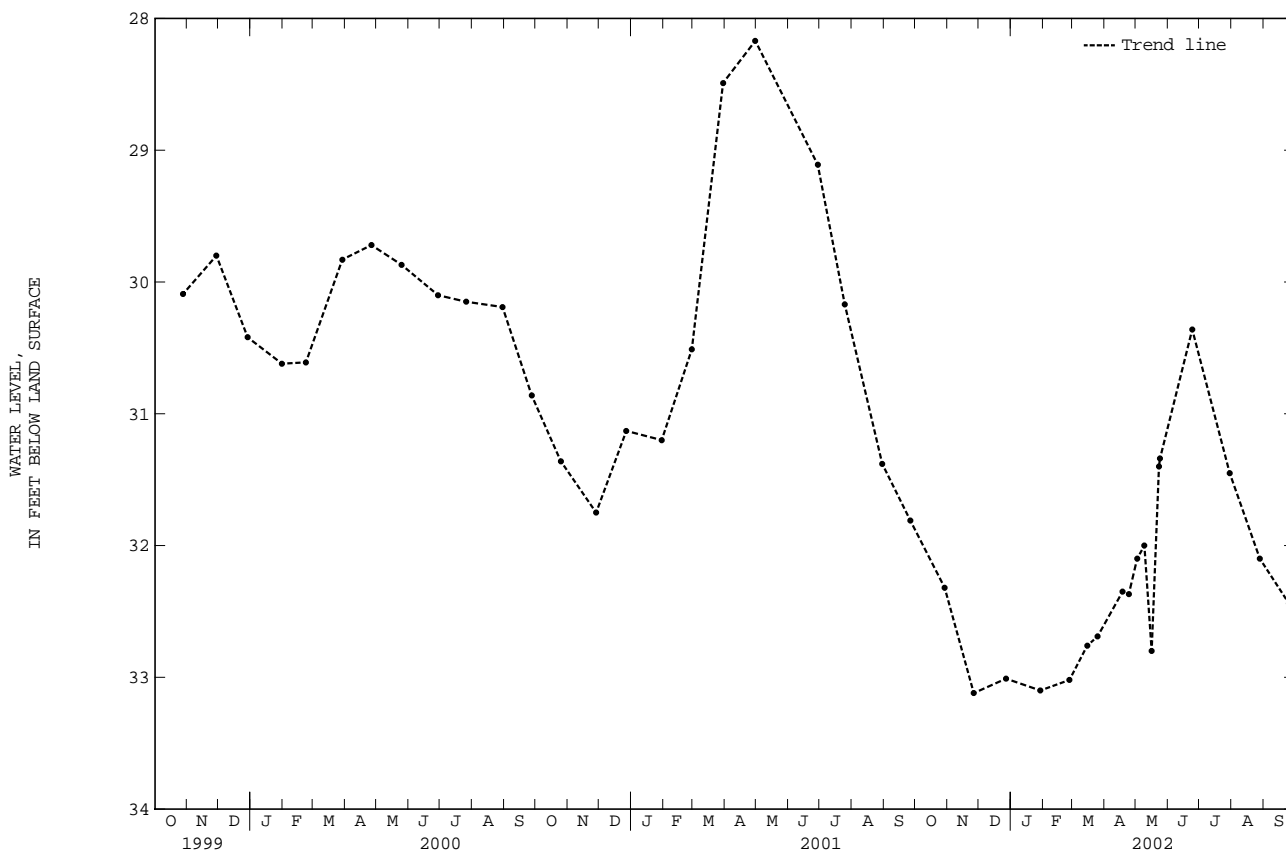
**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 26.33 ft below land-surface datum, Apr. 26, 1983; lowest water level measured, 33.41 ft below land-surface datum, Jan. 26, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	32.32	JAN 29	33.10	MAR 25	32.69	MAY 02	32.10	MAY 23	31.40	JUL 30	31.45
NOV 26	33.12	FEB 26	33.02	APR 18	32.35	09	32.00	24	31.34	AUG 28	32.10
DEC 27	33.01	MAR 15	32.76	24	32.37	16	32.80	JUN 24	30.36	SEP 25	32.44

WATER YEAR 2002      HIGHEST    30.36    JUN 24, 2002      LOWEST    33.12    NOV 26, 2001

## BD 8



## FAIRFIELD COUNTY--Continued

411256073153101. Local Number, FF 23.

**LOCATION.**--Lat 41°12'56", long 73°15'31", Hydrologic Unit 01100006, about 100 ft south of Merritt Parkway and about 2,000 ft southwest of State Rt. 59 overpass (exit 46), Fairfield; Westport quadrangle. Owner: Connecticut Department of Transportation.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 1.25 in, depth 42 ft, steel casing to 39 ft, screened 39 to 42 ft.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 130 ft above sea level, from topographic map. Measuring point: Top of steel protective casing at orange paint mark, 2.40 ft above land-surface datum.

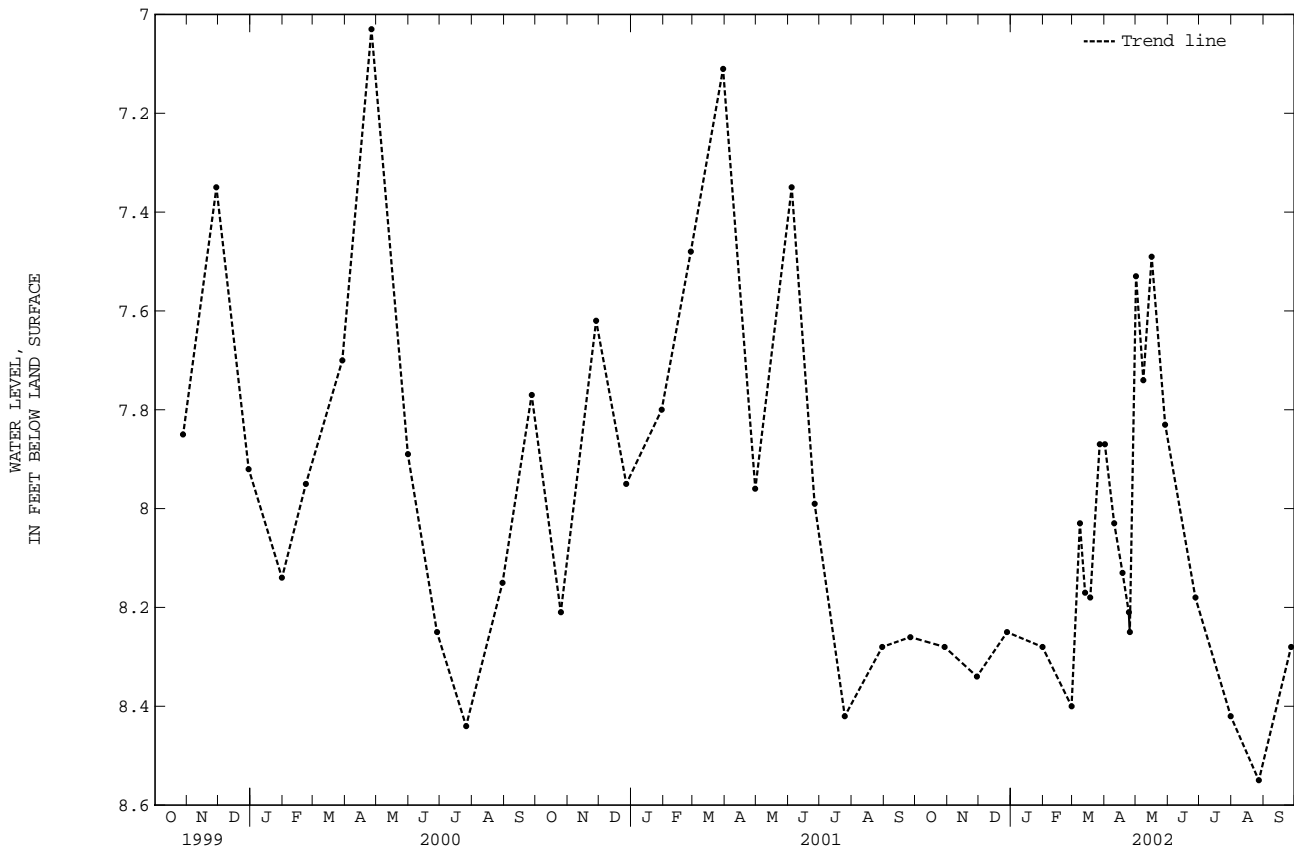
**PERIOD OF RECORD.**--September 1966 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 3.64 ft below land-surface datum, Apr. 10, 1980; lowest water level measured, 9.80 ft below land-surface datum, Aug. 26, 1999.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	8.28	FEB 28	8.40	MAR 27	7.87	APR 24	8.21	MAY 16	7.49	AUG 27	8.55
NOV 29	8.34	MAR 08	8.03	APR 01	7.87	APR 25	8.25	MAY 29	7.83	SEP 27	8.28
DEC 28	8.25	13	8.17	10	8.03	MAY 01	7.53	JUN 27	8.18		
JAN 31	8.28	18	8.18	18	8.13	MAY 08	7.74	JUL 31	8.42		
WATER YEAR 2002		HIGHEST	7.49	MAY 16, 2002		LOWEST	8.55	AUG 27, 2002			

## FF 23



## GROUND-WATER LEVELS

## FAIRFIELD COUNTY--Continued

411124073172201. Local Number, FF 30.

**LOCATION.**--Lat 41°11'24", long 73°17'22", Hydrologic Unit 01100006, High Point Lane, 80 ft northeast of end of old cul-de-sac, in pavement of new cul-de-sac, Fairfield; Westport quadrangle. Owner: Aspetuck Land Trust.

**AQUIFER.**--Bedrock.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 27 ft, screened 22 to 27 ft.

**INSTRUMENTATION.**--From August 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 335 ft above sea level, from topographic map. Measuring point (modified Nov. 29, 2001): Top of PVC protective casing between hacksaw marks under manhole cover in new cul-de-sac, 0.45 ft below land-surface datum.

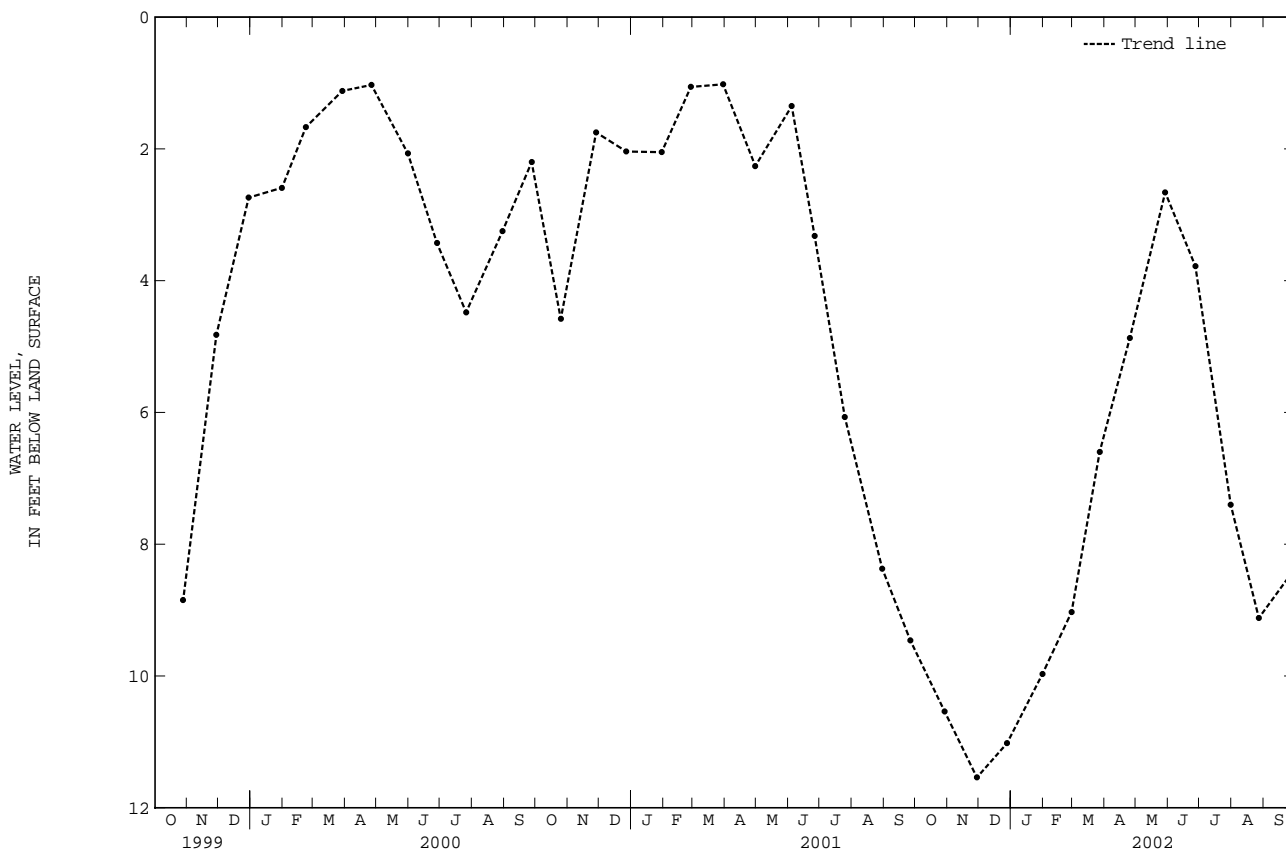
**PERIOD OF RECORD.**--August 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.47 ft below land-surface datum Mar. 30, 1994; lowest water level measured, 13.22 ft below land-surface datum, Dec. 23, 1998.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	10.54	DEC 28	11.02	FEB 28	9.03	APR 25	4.87	JUN 27	3.78	AUG 27	9.12
NOV 29	11.54	JAN 31	9.97	MAR 27	6.60	MAY 29	2.66	JUL 31	7.40	SEP 27	8.45
WATER YEAR 2002		HIGHEST	2.66	MAY 29, 2002		LOWEST	11.54	NOV 29, 2001			

## FF 30





## FAIRFIELD COUNTY--Continued

411118073175801. Local Number, FF 31.

**LOCATION.**--Lat 41°11'18", long 73°17'58", Hydrologic Unit 01100006, Behind fire station at 3965 Hillside Ave., Fairfield; Westport quadrangle. Owner: Town of Fairfield.

**AQUIFER.**--Bedrock.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 39.1 ft, screened 30 to 39.1 ft.

**INSTRUMENTATION.**--From October 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 275 ft above sea level from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 2.00 ft above land-surface datum.

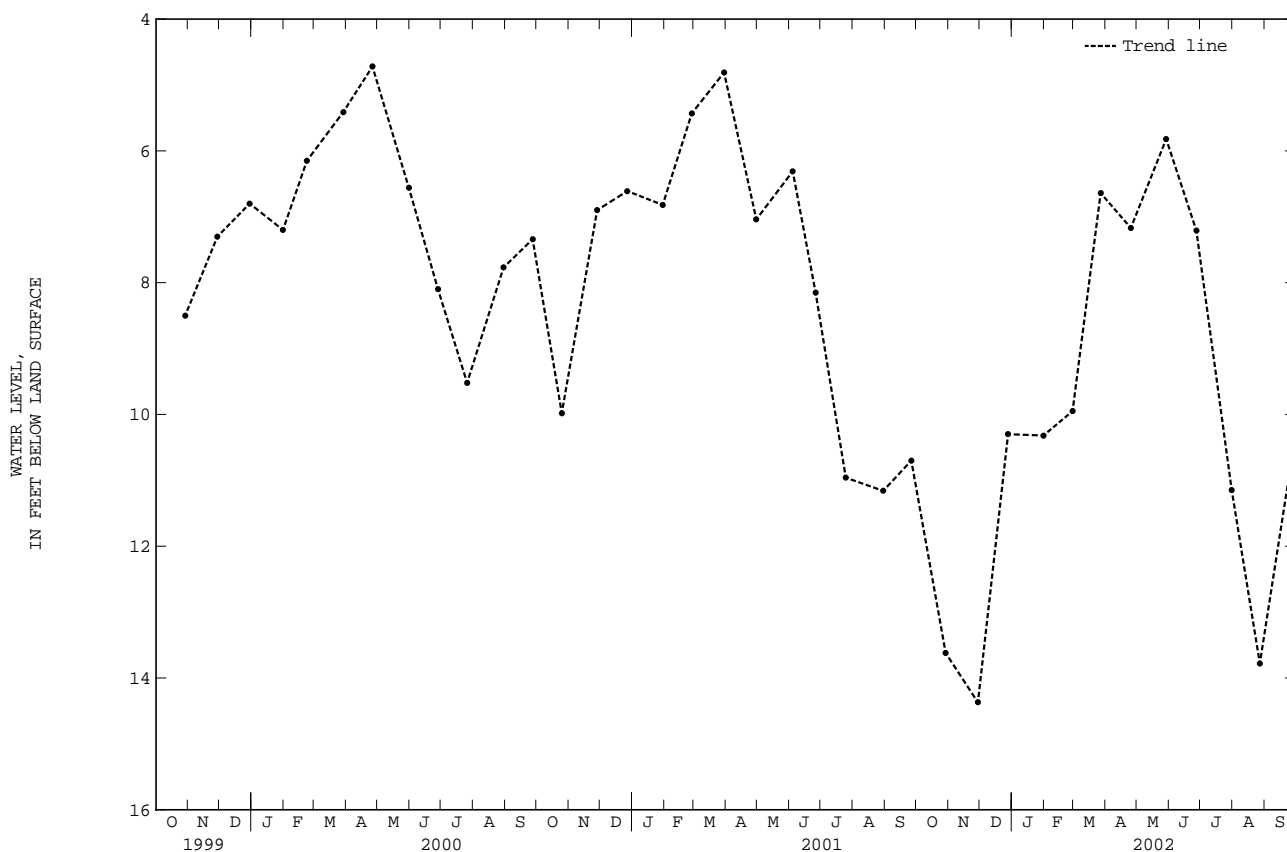
**PERIOD OF RECORD.**--October 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 1.59 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 14.50 ft below land-surface datum, Sept. 13, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	13.62	DEC 28	10.30	FEB 28	9.95	APR 25	7.17	JUN 27	7.21	AUG 27	13.78
NOV 29	14.37	JAN 31	10.32	MAR 27	6.64	MAY 29	5.82	JUL 31	11.15	SEP 27	10.64
WATER YEAR 2002		HIGHEST		5.82		MAY 29, 2002		LOWEST		14.37	
										NOV 29, 2001	

## FF 31



## GROUND-WATER LEVELS

## FAIRFIELD COUNTY--Continued

411103073181301. Local Number, FF 32.

**LOCATION.**--Lat 41°11'03", long 73°18'13", Hydrologic Unit 01100006, Timothy Dwight School, Redding Rd. 10 ft off of curb at corner of parking lot, Fairfield; Westport quadrangle. Owner: Town of Fairfield.

**AQUIFER.**--Bedrock.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 25 ft, screened 20 to 25 ft.

**INSTRUMENTATION.**--From August 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 225 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 0.50 ft above land-surface datum.

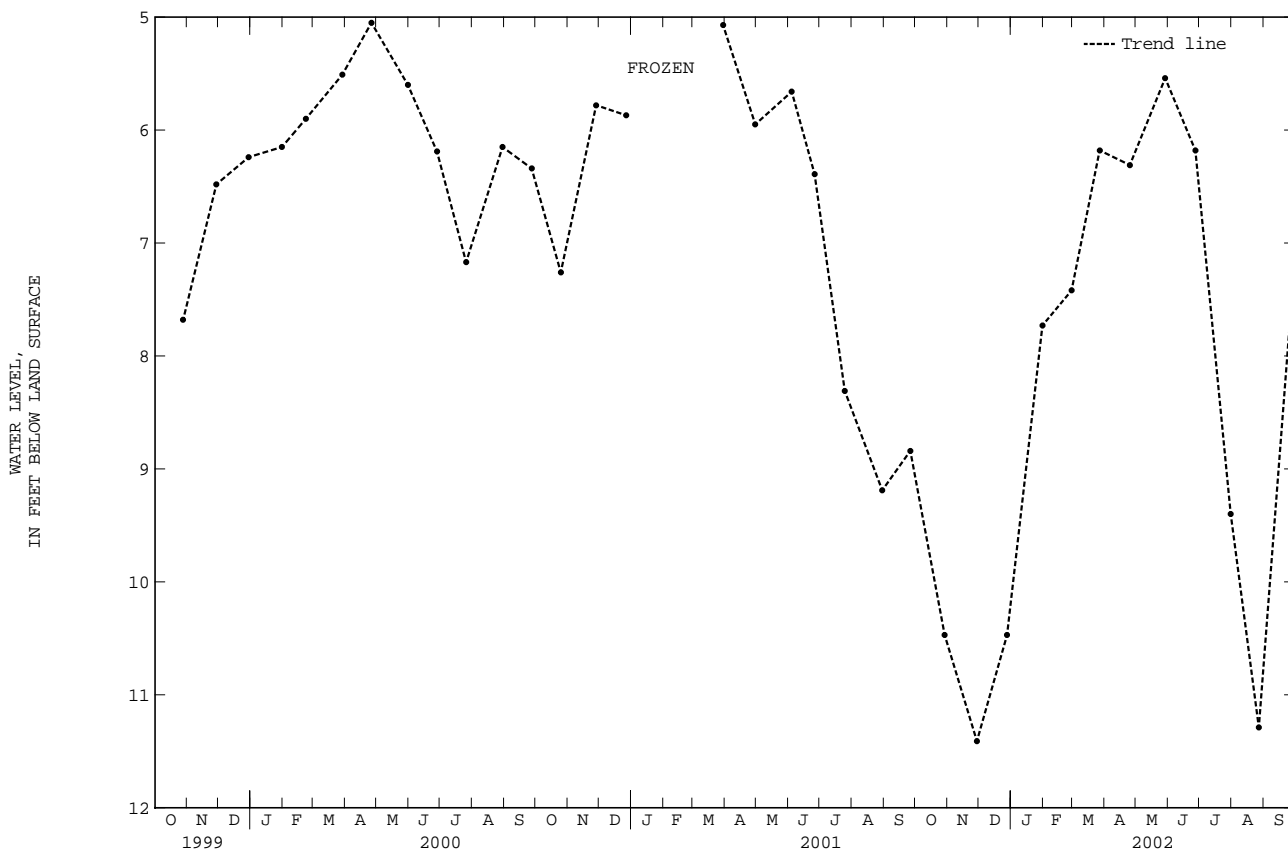
**PERIOD OF RECORD.**--August 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 4.70 ft below land-surface datum, Apr. 25, 1994; lowest water level measured, 14.01 ft below land-surface datum, Sept. 30, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	10.47	DEC 28	10.47	FEB 28	7.42	APR 25	6.31	JUN 27	6.18	AUG 27	11.29
NOV 29	11.41	JAN 31	7.73	MAR 27	6.18	MAY 29	5.54	JUL 31	9.40	SEP 27	7.56
WATER YEAR 2002		HIGHEST	5.54	MAY 29, 2002		LOWEST	11.41	NOV 29, 2001			

## FF 32



## FAIRFIELD COUNTY--Continued

411058073182001. Local Number, FF 33.

**LOCATION.**--Lat 41°10'58", long 73°18'20", Hydrologic Unit 01100006, Timothy Dwight School, Redding Rd. 50 ft north of driveway, 50 ft east of Redding Rd., Fairfield; Westport quadrangle. Owner: Town of Fairfield.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 25 ft, screened 20 to 25 ft.

**INSTRUMENTATION.**--From August 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 155 ft above sea level, from topographic map. Measuring point: Top of steel protective casing at orange paint mark, 1.00 ft above land-surface datum.

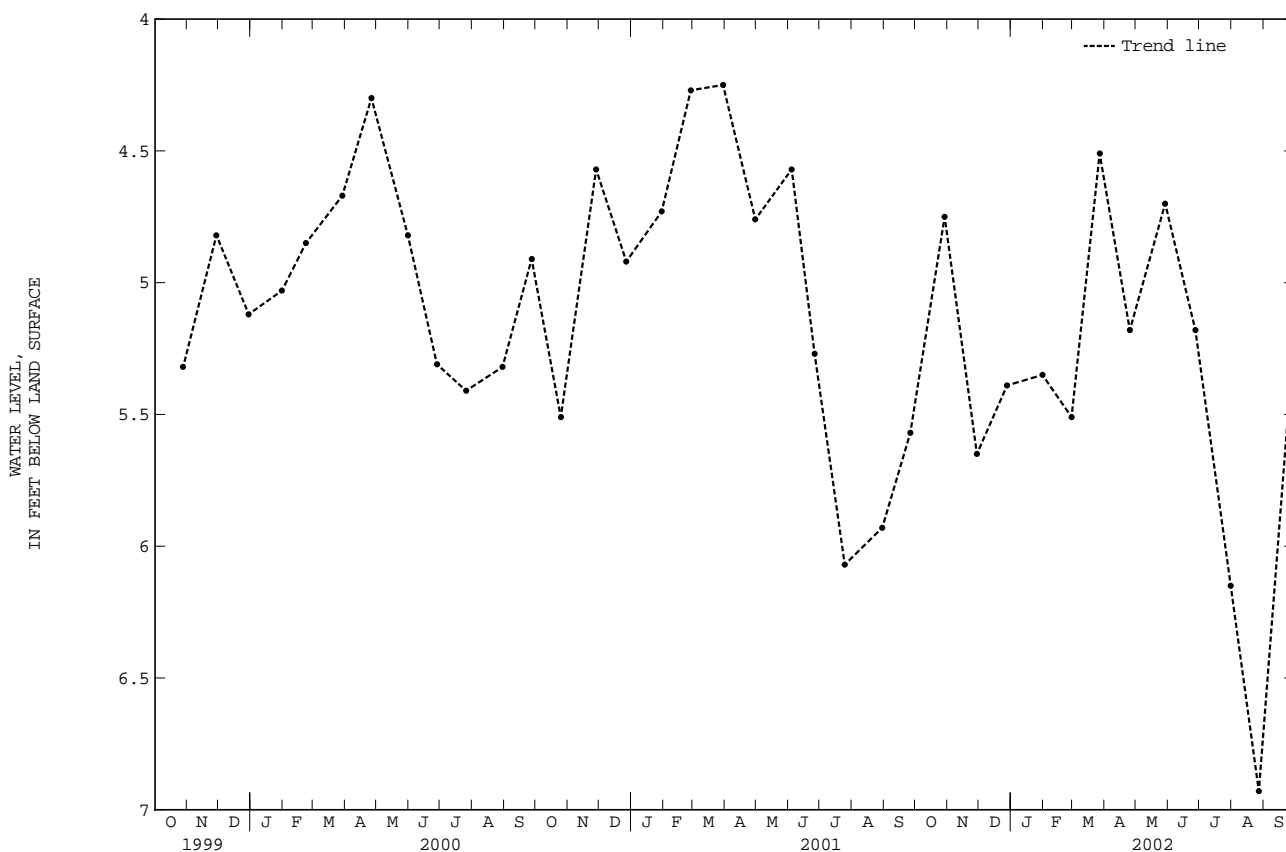
**PERIOD OF RECORD.**--August 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 3.10 ft below land-surface datum, July 29, 1998; lowest water level measured, 8.13 ft below land-surface datum, Sept. 23, 1996.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	4.75	DEC 28	5.39	FEB 28	5.51	APR 25	5.18	JUN 27	5.18	AUG 27	6.93
NOV 29	5.65	JAN 31	5.35	MAR 27	4.51	MAY 29	4.70	JUL 31	6.15	SEP 27	5.35
WATER YEAR 2002		HIGHEST	4.51	MAR 27, 2002	LOWEST	6.93	AUG 27, 2002				

## FF 33



410628073413301. Local Number, GW 21.

**AQUIFER.**--Carbonate crystalline bedrock.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 6 in, depth 350 ft, steel casing 18.7 ft below land surface, open hole.

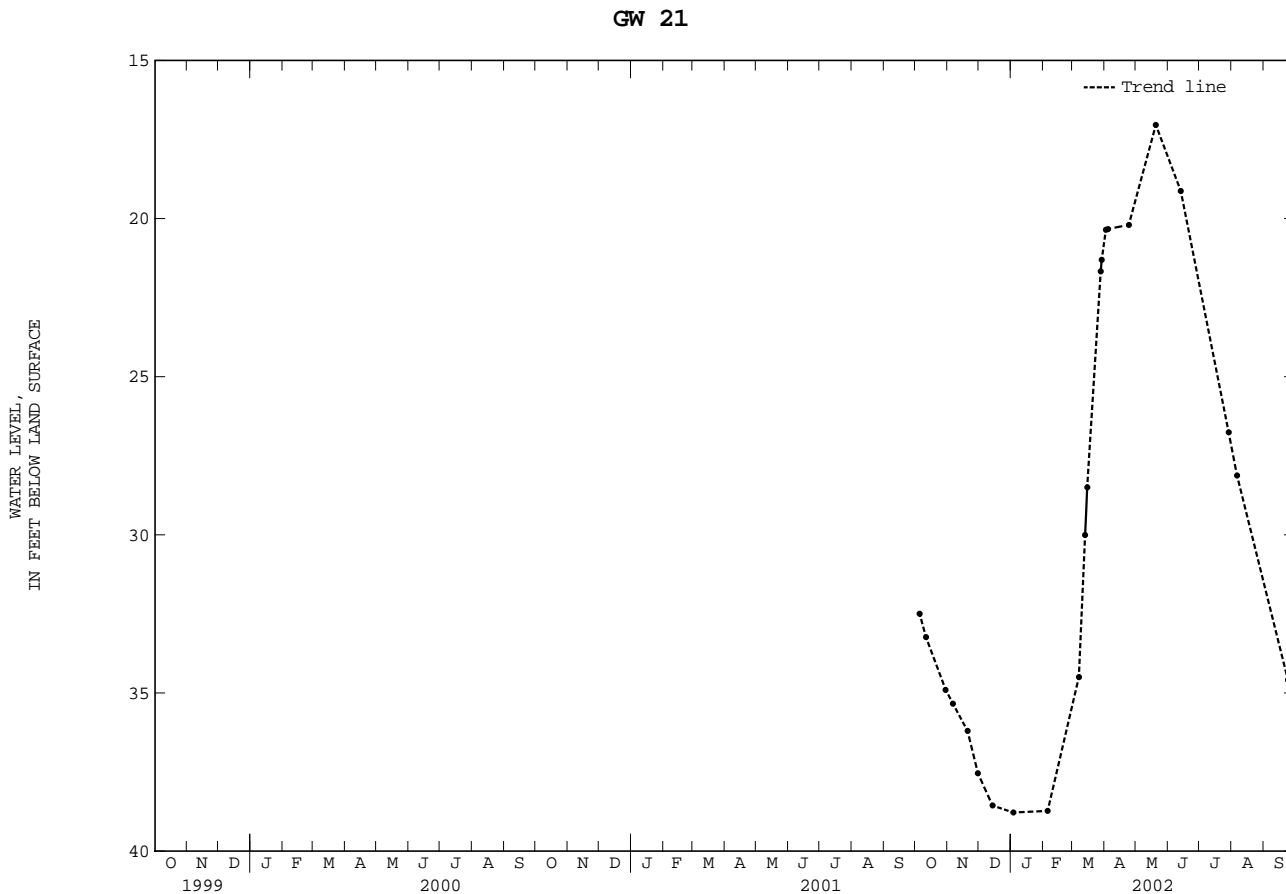
**INSTRUMENTATION.**--Manual measurements made starting October 5, 2001. Submersible pressure transducer/data logger installed Nov. 20, 2001, collects 1-hour water-level data. Satellite telemetry at station. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 465 ft above sea level, from topographic map. Measuring point: Top of casing 1.28 ft above land-surface datum.

PERIOD OF RECORD.--Nov. 2001 to Sept. 30, 2002.

**EXTREMES FOR PERIOD OF DAILY RECORD.**--Highest water level measured, 16.98 ft below land-surface datum, May 21, 2002; lowest water level measured, 39.13 ft below land-surface datum on Jan. 26, 27, 2002.

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 05	32.50	NOV 20	36.20	FEB 05	38.73	MAR 15	28.50	APR 04	20.33	JUL 29	26.76
11	33.23	30	37.54	MAR 07	34.50	28	21.67	24	20.20	AUG 06	28.12
30	34.90	DEC 14	38.56	13	30.01	29	21.30	MAY 20	17.04	SEP 24	34.59
NOV 06	35.34	JAN 03	38.78	14	29.30	APR 02	20.35	JUN 13	19.13		
WATER YEAR 2002		HIGHEST	17.04	MAY 20, 2002		LOWEST	38.78	JAN 03, 2002			



## GROUND-WATER LEVELS

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## FAIRFIELD COUNTY--Continued

410628073413301. Local Number, GW 21.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	37.85	37.65	---	---	38.95	38.82	36.84	36.74
2	---	---	---	---	37.99	37.82	---	---	38.89	38.84	36.78	36.56
3	---	---	---	---	38.14	37.97	---	---	38.86	38.77	36.56	36.24
4	---	---	---	---	38.25	38.13	38.85	38.81	38.77	38.72	36.25	35.92
5	---	---	---	---	38.32	38.25	38.87	38.83	38.74	38.71	35.92	35.47
6	---	---	---	---	38.33	38.24	38.87	38.80	38.71	38.67	35.47	34.90
7	---	---	---	---	38.42	38.28	38.90	38.80	38.67	38.59	34.90	34.30
8	---	---	---	---	38.75	38.42	38.97	38.88	38.64	38.54	34.30	33.57
9	---	---	---	---	38.95	38.75	38.97	38.90	38.64	38.55	33.57	32.67
10	---	---	---	---	38.89	38.78	39.00	38.90	38.61	38.44	32.67	32.05
11	---	---	---	---	38.78	38.67	39.01	38.93	38.44	38.34	32.05	31.31
12	---	---	---	---	38.71	38.62	39.01	38.94	38.43	38.27	31.31	30.45
13	---	---	---	---	38.66	38.51	39.03	38.90	38.32	38.24	30.45	29.55
14	---	---	---	---	---	---	39.04	38.98	38.28	38.17	29.55	28.81
15	---	---	---	---	---	---	39.04	38.97	38.20	38.06	28.81	28.03
16	---	---	---	---	---	---	39.07	39.02	38.07	37.93	28.03	27.59
17	---	---	---	---	---	---	39.09	39.00	37.94	37.85	27.59	26.92
18	---	---	---	---	---	---	39.08	39.03	37.88	37.82	26.92	26.31
19	---	---	---	---	---	---	39.09	39.02	37.82	37.71	26.31	25.88
20	---	---	---	---	---	---	39.07	39.03	37.71	37.54	25.88	25.27
21	---	---	36.34	36.30	---	---	39.06	39.01	37.54	37.45	25.27	24.82
22	---	---	36.40	36.34	---	---	39.10	39.03	37.45	37.38	24.82	24.30
23	---	---	36.49	36.40	---	---	39.07	39.02	37.41	37.34	24.30	23.69
24	---	---	36.61	36.49	---	---	39.03	38.96	37.37	37.26	23.69	23.14
25	---	---	36.72	36.61	---	---	39.08	38.98	37.30	37.09	23.14	22.65
26	---	---	36.91	36.72	---	---	39.13	39.00	37.14	36.91	22.65	22.05
27	---	---	37.05	36.87	---	---	39.13	39.02	36.97	36.77	22.05	21.78
28	---	---	37.32	37.04	---	---	39.10	38.94	36.85	36.77	21.81	21.44
29	---	---	37.51	37.30	---	---	39.03	38.93	---	---	21.45	21.04
30	---	---	37.68	37.48	---	---	39.01	38.92	---	---	21.04	20.82
31	---	---	---	---	---	---	39.02	38.91	---	---	20.83	20.53
MONTH	---	---	---	---	---	---	---	---	38.95	36.77	36.84	20.53
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	20.53	20.44	19.78	19.56	18.18	18.05	21.32	21.17	27.29	27.08	32.42	32.30
2	20.46	20.36	19.56	19.27	18.41	18.18	21.53	21.32	27.50	27.28	32.39	32.33
3	20.48	20.36	19.29	19.19	18.56	18.41	21.68	21.53	27.69	27.50	32.51	32.38
4	20.43	20.28	19.19	18.97	18.66	18.54	21.84	21.68	27.82	27.69	32.58	32.45
5	20.28	20.14	18.97	18.81	18.74	18.66	22.04	21.84	27.95	27.82	32.73	32.57
6	20.14	20.09	18.81	18.69	18.86	18.73	22.19	22.04	28.22	27.94	32.86	32.73
7	20.13	20.03	18.69	18.59	19.03	18.86	22.36	22.19	28.40	28.22	32.99	32.85
8	20.08	19.99	18.69	18.62	19.00	18.90	22.53	22.36	28.59	28.40	33.08	32.97
9	20.02	19.94	18.66	18.58	18.90	18.81	22.80	22.53	28.77	28.59	33.30	33.06
10	20.04	19.96	18.72	18.59	18.91	18.84	22.95	22.80	28.89	28.77	33.34	33.28
11	20.06	19.95	18.76	18.69	18.94	18.89	23.09	22.95	29.15	28.88	33.44	33.28
12	20.00	19.88	18.75	18.62	19.00	18.91	23.30	23.09	29.34	29.15	33.56	33.44
13	19.95	19.87	18.72	18.59	19.12	19.04	23.52	23.30	29.54	29.34	33.65	33.56
14	19.94	19.87	18.61	18.09	19.14	19.06	23.65	23.52	29.71	29.54	33.75	33.65
15	19.96	19.87	18.09	17.62	19.21	19.13	23.83	23.65	29.85	29.71	33.85	33.75
16	19.99	19.94	17.62	17.35	19.37	19.16	24.00	23.83	29.98	29.85	33.86	33.78
17	20.02	19.96	17.39	17.32	19.47	19.34	24.15	24.00	30.10	29.96	33.97	33.86
18	20.02	19.98	17.34	17.25	19.55	19.47	24.50	24.15	30.25	30.10	34.08	33.95
19	20.02	19.97	17.25	17.06	19.68	19.54	24.78	24.50	30.44	30.25	34.18	34.06
20	20.04	19.96	17.06	16.99	19.89	19.67	24.97	24.78	30.68	30.44	34.27	34.18
21	20.10	20.01	17.03	16.98	19.94	19.85	25.12	24.97	30.85	30.68	34.37	34.26
22	20.11	20.00	17.08	17.00	20.01	19.90	25.40	25.12	30.96	30.85	34.43	34.35
23	20.18	20.08	17.14	17.03	20.07	19.97	25.67	25.40	31.10	30.94	34.57	34.43
24	20.19	20.11	17.26	17.06	20.28	20.07	25.88	25.67	31.18	31.10	34.67	34.57
25	20.18	20.05	17.40	17.25	20.44	20.28	26.04	25.88	31.36	31.18	34.74	34.67
26	20.22	20.13	17.51	17.38	20.55	20.44	26.19	26.04	31.52	31.36	34.77	34.72
27	20.24	20.14	17.64	17.50	20.66	20.55	26.33	26.19	31.79	31.52	34.76	34.69
28	20.18	20.04	17.75	17.64	20.87	20.63	26.46	26.33	31.93	31.79	34.88	34.70
29	20.17	20.01	17.87	17.74	21.04	20.87	26.66	26.46	31.97	31.91	34.96	34.88
30	20.01	19.78	17.97	17.87	21.17	21.04	26.88	26.66	32.13	31.96	35.05	34.96
31	---	---	18.05	17.96	---	---	27.08	26.88	32.30	32.13	---	---
MONTH	20.53	19.78	19.78	16.98	21.17	18.05	27.08	21.17	32.30	27.08	35.05	32.30

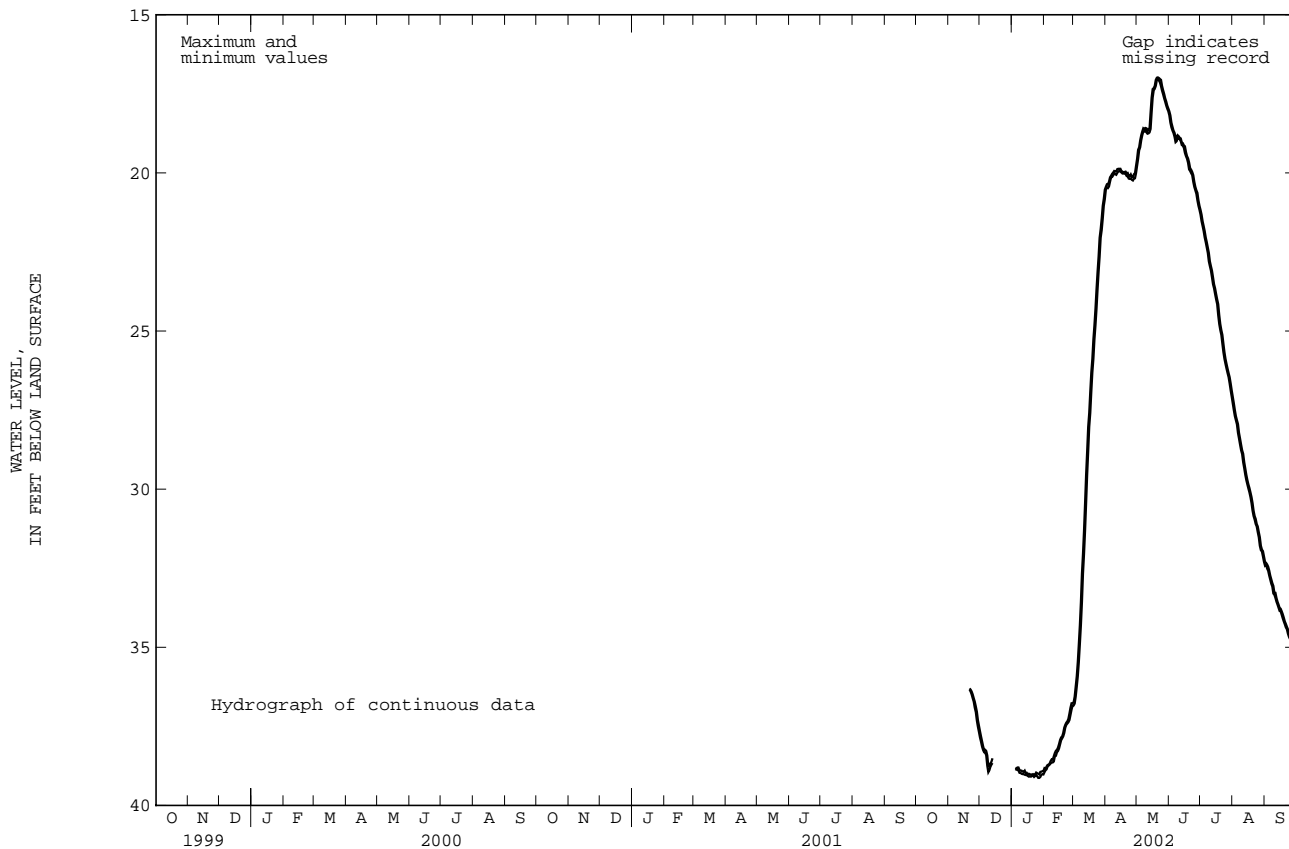
## GROUND-WATER LEVELS

## FAIRFIELD COUNTY--Continued

410628073413301. Local Number, GW 21.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

## GW 21



410443073414101. Local Number, GW 22.

**AQUIFER.**--Crystalline bedrock.

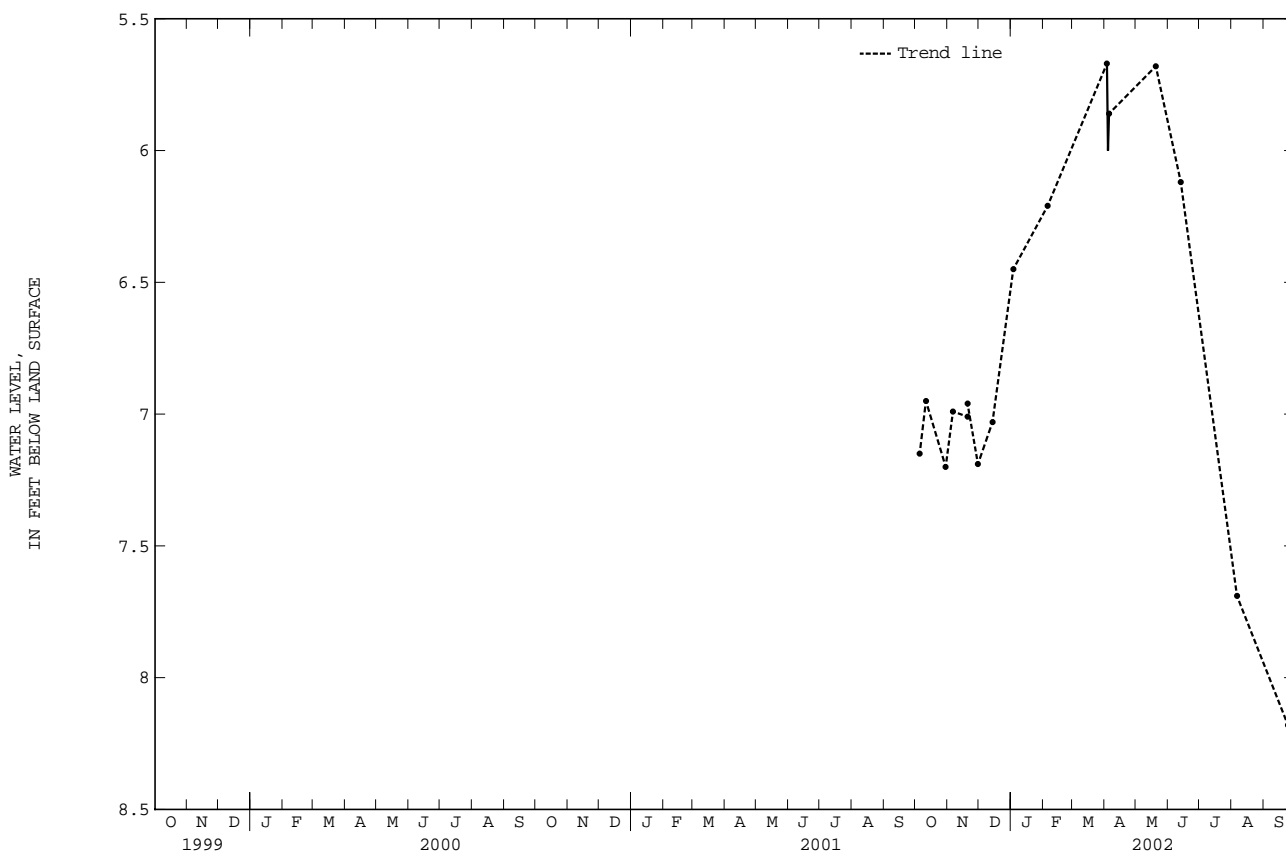
**INSTRUMENTATION.**--Submersible pressure transducer/data logger installed Nov. 20, 2001, removed Oct. 22, 2002, collects 1-hour water-level data. All measurements made by USGS personnel.

PERIOD OF RECORD.--Nov. 2001 to Sept. 30, 2002.

**EXTREMES FOR PERIOD OF DATA RECORD.**--Highest water level measured, 3.67 ft below land-surface datum, May 19, 2002; lowest water level measured, 9.00 ft below land-surface datum on Sept. 25, 2002.

DATE		WATER LEVEL		DATE		WATER LEVEL		DATE		WATER LEVEL	
OCT 05	7.15	NOV 06	6.99	NOV 30	7.19	FEB 05	6.21	APR 05	5.86	AUG 06	7.69
11	6.95	20	7.01	DEC 14	7.03	APR 03	5.67	MAY 20	5.68	SEP 24	8.18
30	7.20	20	6.96	JAN 03	6.45	04	6.00	JUN 13	6.12		
WATER YEAR 2002		HIGHEST	5.67	APR 03, 2002		LOWEST	8.18	SEP 24, 2002			

GW 22





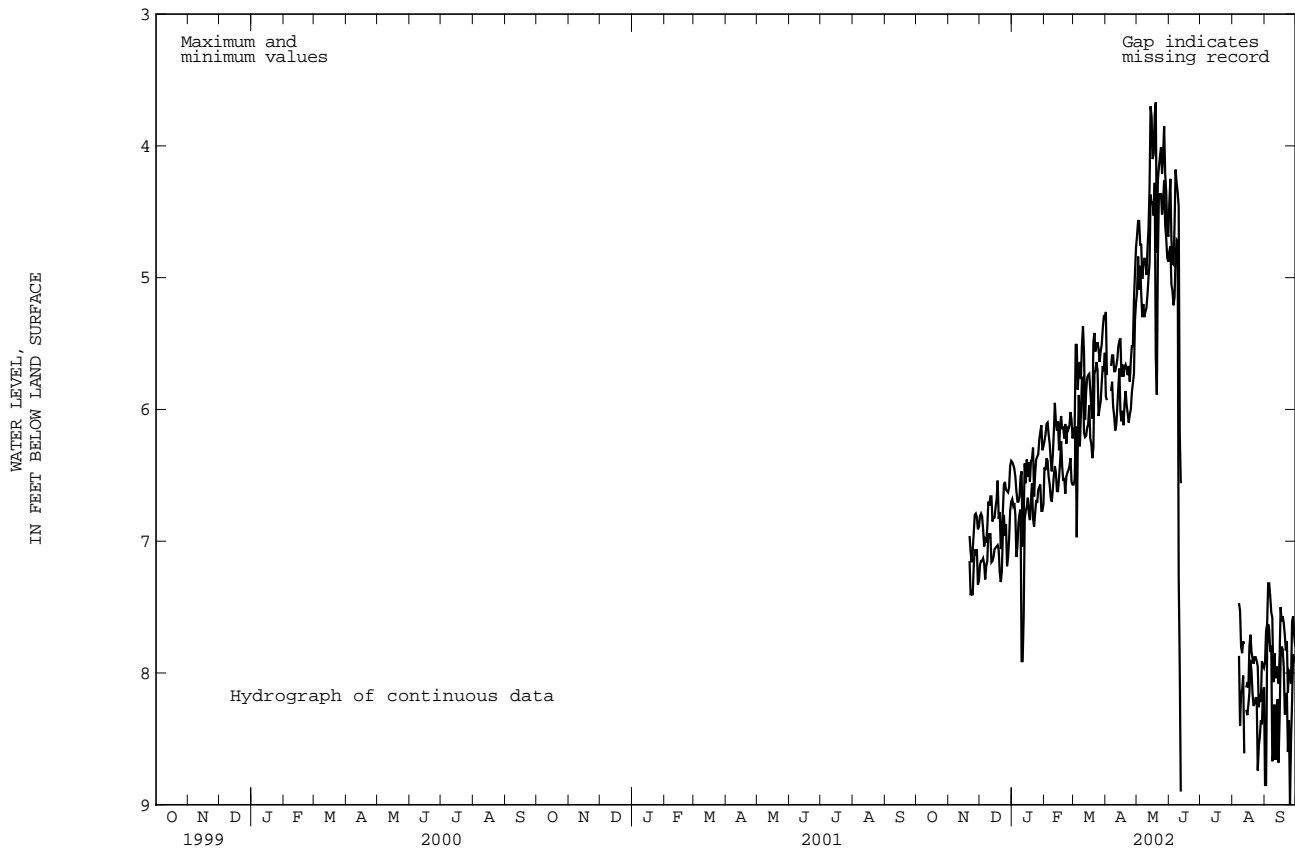


## FAIRFIELD COUNTY--Continued

410443073414101. Local Number, GW 22.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

## GW 22



## GROUND-WATER LEVELS

## FAIRFIELD COUNTY--Continued

410515073415901. Local Number, GW 23.

**LOCATION.**--Lat 41°05'15", long 73°41'59", Hydrologic Unit 01100006, 0.3 mi south of North Porchuck Rd. from Audubon Parking lot, Greenwich; Glenville quadrangle. Owner: National Audubon Society.

**AQUIFER.**--Crystalline bedrock.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 6 in, depth 250 ft, steel casing 17.3 ft below land surface, open hole.

**INSTRUMENTATION.**--Submersible pressure transducer/data logger installed Nov. 20, 2001, removed Oct. 22, 2002, collects 1-hour water-level data. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 365 ft above sea level, from topographic map. Measuring point: Top of casing 2.20 ft above land-surface datum.

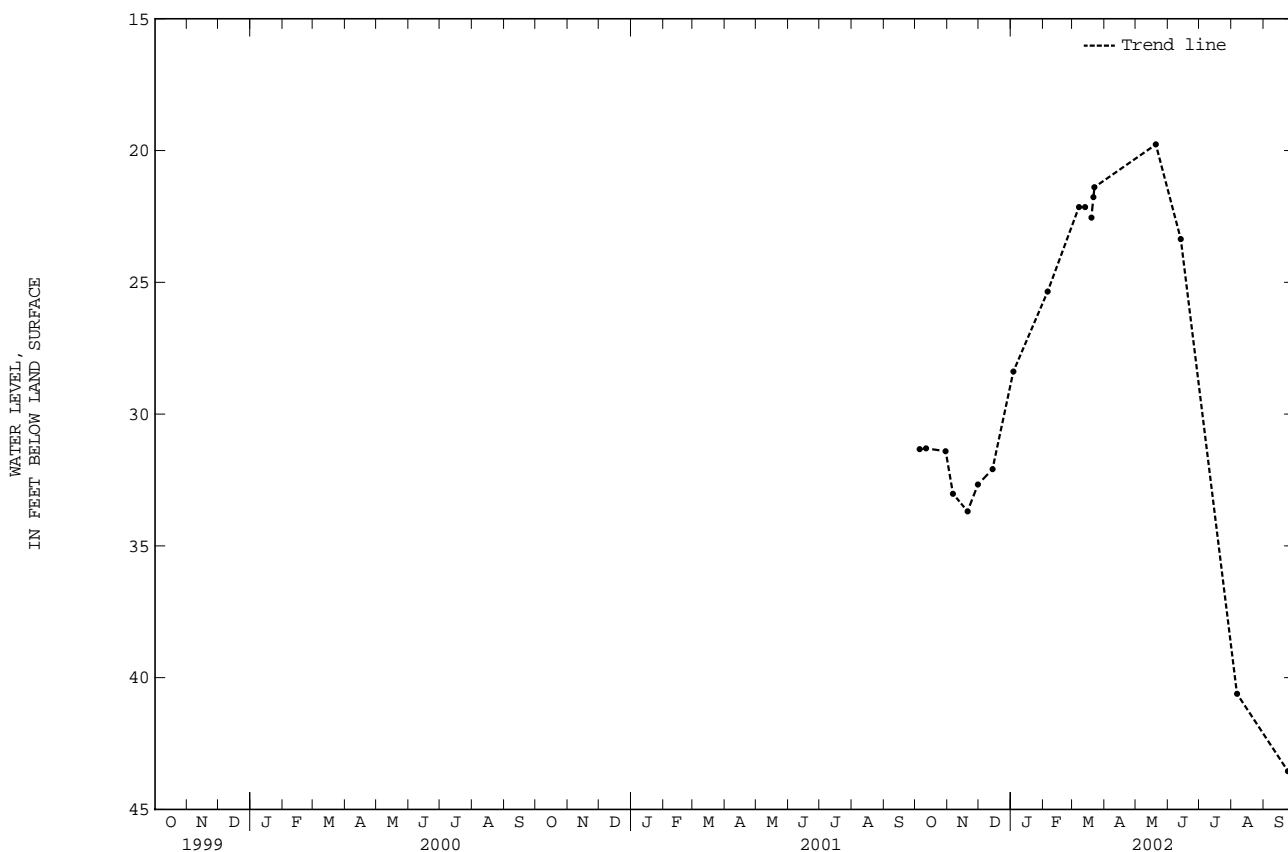
**PERIOD OF RECORD.**--Nov. 2001 to Sept. 30, 2002.

**EXTREMES FOR PERIOD OF DAILY RECORD.**--Highest water level measured, 19.39 ft below land-surface datum, May 15, 2002; lowest water level measured, 46.60 ft below land-surface datum on July 17, 2002.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	31.33	NOV 06	33.02	DEC 14	32.09	MAR 07	22.15	MAR 21	21.77	JUN 13	23.36
11	31.30	20	33.69	JAN 03	28.39	13	22.15	22	21.39	AUG 06	40.61
30	31.41	30	32.67	FEB 05	25.35	19	22.55	MAY 20	19.77	SEP 24	43.55
WATER YEAR 2002		HIGHEST	19.77	MAY 20, 2002	LOWEST	43.55	SEP 24, 2002				

## GW 23



## GROUND-WATER LEVELS

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## FAIRFIELD COUNTY--Continued

410515073415901. Local Number, GW 23.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	32.76	32.48	---	---	25.68	25.41	24.83	24.68
2	---	---	---	---	32.76	32.48	---	---	25.66	25.51	24.87	24.70
3	---	---	---	---	32.73	32.43	---	---	25.65	25.42	24.71	23.42
4	---	---	---	---	32.66	32.41	28.46	28.33	25.42	25.31	23.42	22.99
5	---	---	---	---	32.60	32.39	28.43	28.31	25.45	25.35	22.99	22.61
6	---	---	---	---	32.54	32.32	28.37	28.11	25.43	25.32	22.61	22.26
7	---	---	---	---	32.43	32.30	28.21	28.09	25.37	25.18	22.26	22.12
8	---	---	---	---	32.47	32.32	28.13	27.97	25.35	25.17	22.15	22.05
9	---	---	---	---	32.49	32.30	27.99	27.71	25.49	25.26	22.10	21.92
10	---	---	---	---	32.43	32.28	27.78	27.55	25.48	25.15	22.07	21.85
11	---	---	---	---	32.38	32.17	27.70	27.36	25.28	25.00	22.14	21.98
12	---	---	---	---	32.34	32.13	27.52	27.14	25.28	24.94	22.18	22.00
13	---	---	---	---	32.27	32.02	27.24	26.82	25.12	24.94	22.18	22.01
14	---	---	---	---	---	---	27.03	26.79	25.14	24.94	22.32	22.09
15	---	---	---	---	---	---	26.91	26.62	25.07	24.83	22.35	22.22
16	---	---	---	---	---	---	26.77	26.60	24.92	24.74	22.49	22.25
17	---	---	---	---	---	---	26.72	26.48	24.82	24.71	22.61	22.46
18	---	---	---	---	---	---	26.61	26.47	24.89	24.78	22.58	22.46
19	---	---	---	---	---	---	26.60	26.39	24.90	24.81	22.74	22.51
20	---	---	---	---	---	---	26.48	26.39	24.94	24.82	22.61	22.12
21	---	---	33.65	33.32	---	---	26.47	26.35	24.90	24.75	22.12	21.52
22	---	---	33.38	33.21	---	---	26.53	26.36	24.93	24.79	22.52	21.40
23	---	---	33.35	33.22	---	---	26.47	26.36	24.92	24.76	22.22	21.75
24	---	---	33.25	33.08	---	---	26.39	26.21	24.90	24.72	21.79	21.64
25	---	---	33.10	32.95	---	---	26.36	26.23	24.88	24.62	21.83	21.62
26	---	---	33.05	32.89	---	---	26.32	25.98	24.79	24.50	21.79	21.56
27	---	---	32.98	32.81	---	---	26.13	25.81	24.68	24.45	21.68	21.42
28	---	---	32.98	32.74	---	---	25.98	25.65	24.77	24.55	21.61	21.35
29	---	---	32.94	32.68	---	---	25.86	25.57	---	---	21.53	21.29
30	---	---	32.84	32.55	---	---	25.79	25.58	---	---	21.48	21.25
31	---	---	---	---	---	---	25.81	25.56	---	---	21.63	21.40
MONTH	---	---	---	---	---	---	---	---	25.68	24.45	24.87	21.25
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21.67	21.42	21.36	21.07	23.32	23.02	30.49	27.81	44.04	42.77	37.08	36.16
2	21.83	21.62	21.09	20.88	23.59	23.28	36.35	30.49	43.85	42.71	36.16	35.24
3	21.89	21.70	20.98	20.87	23.98	23.59	38.67	36.11	42.93	39.50	35.24	34.61
4	22.03	21.83	21.13	20.93	24.22	23.98	40.49	37.61	39.50	37.42	34.61	33.95
5	22.06	21.95	21.21	21.05	24.32	24.19	43.10	40.49	40.11	37.42	33.95	33.46
6	22.20	21.96	21.37	21.13	24.41	24.24	44.14	43.10	41.78	39.30	37.49	33.55
7	22.35	22.14	21.52	21.31	24.31	23.71	44.67	44.14	43.01	41.28	39.76	37.33
8	22.47	22.27	21.76	21.46	23.71	23.22	45.04	44.67	43.53	42.04	41.20	39.48
9	22.51	22.35	21.86	21.69	23.22	22.89	45.30	44.33	44.11	42.69	42.04	40.63
10	22.65	22.41	22.09	21.76	23.06	22.85	44.33	39.46	43.44	40.23	42.59	41.31
11	22.73	22.55	22.37	22.08	23.10	22.89	43.24	40.15	40.23	38.20	43.12	41.88
12	22.76	22.57	22.52	22.27	23.26	23.01	44.68	43.24	38.20	37.18	43.53	42.23
13	22.75	22.57	22.35	21.21	23.49	23.25	45.34	44.68	37.20	36.27	43.67	42.69
14	22.83	22.63	21.21	19.55	23.50	23.34	45.76	45.34	36.36	35.75	43.82	42.76
15	22.90	22.68	19.55	19.39	23.53	23.37	46.08	45.76	35.80	35.21	44.05	43.11
16	23.01	22.81	19.67	19.43	23.52	23.39	46.49	46.02	35.22	34.69	43.27	40.29
17	23.01	22.84	19.96	19.61	23.54	23.40	46.60	45.18	34.71	34.21	40.29	38.29
18	23.07	22.89	19.94	19.56	23.71	23.47	45.18	39.53	34.28	33.94	38.29	36.96
19	23.10	22.95	19.63	19.51	23.87	23.66	39.53	36.40	34.04	33.82	36.96	36.47
20	23.18	22.99	19.99	19.58	24.00	23.81	36.40	34.44	34.05	33.80	39.64	36.60
21	23.27	23.08	20.35	19.95	24.14	23.94	34.44	33.53	33.94	33.67	41.31	39.44
22	23.27	23.10	20.75	20.35	24.22	23.99	40.82	34.28	34.17	33.78	42.40	41.02
23	23.47	23.15	20.97	20.70	24.31	24.09	43.11	40.82	34.44	34.08	43.54	41.93
24	23.77	23.39	21.29	20.92	24.96	24.21	42.78	38.12	34.45	33.95	44.14	42.99
25	23.80	23.56	21.71	21.26	25.59	24.96	38.12	36.40	35.36	34.45	44.48	43.48
26	23.78	23.56	22.04	21.71	26.42	25.59	42.65	38.04	38.94	35.09	44.70	43.65
27	23.88	23.64	22.25	21.97	27.97	26.37	44.08	42.42	41.29	38.79	44.01	40.77
28	23.73	23.04	22.49	22.22	28.26	27.87	43.37	42.21	42.52	40.78	40.77	38.82
29	23.04	21.84	22.71	22.43	28.59	27.54	43.23	41.95	42.37	40.95	38.82	37.38
30	21.84	21.36	22.92	22.66	28.72	27.82	43.65	42.37	40.95	38.54	37.38	36.69
31	---	---	23.06	22.85	---	---	43.59	42.29	38.54	37.08	---	---
MONTH	23.88	21.36	23.06	19.39	28.72	22.85	46.60	27.81	44.11	33.67	44.70	33.46

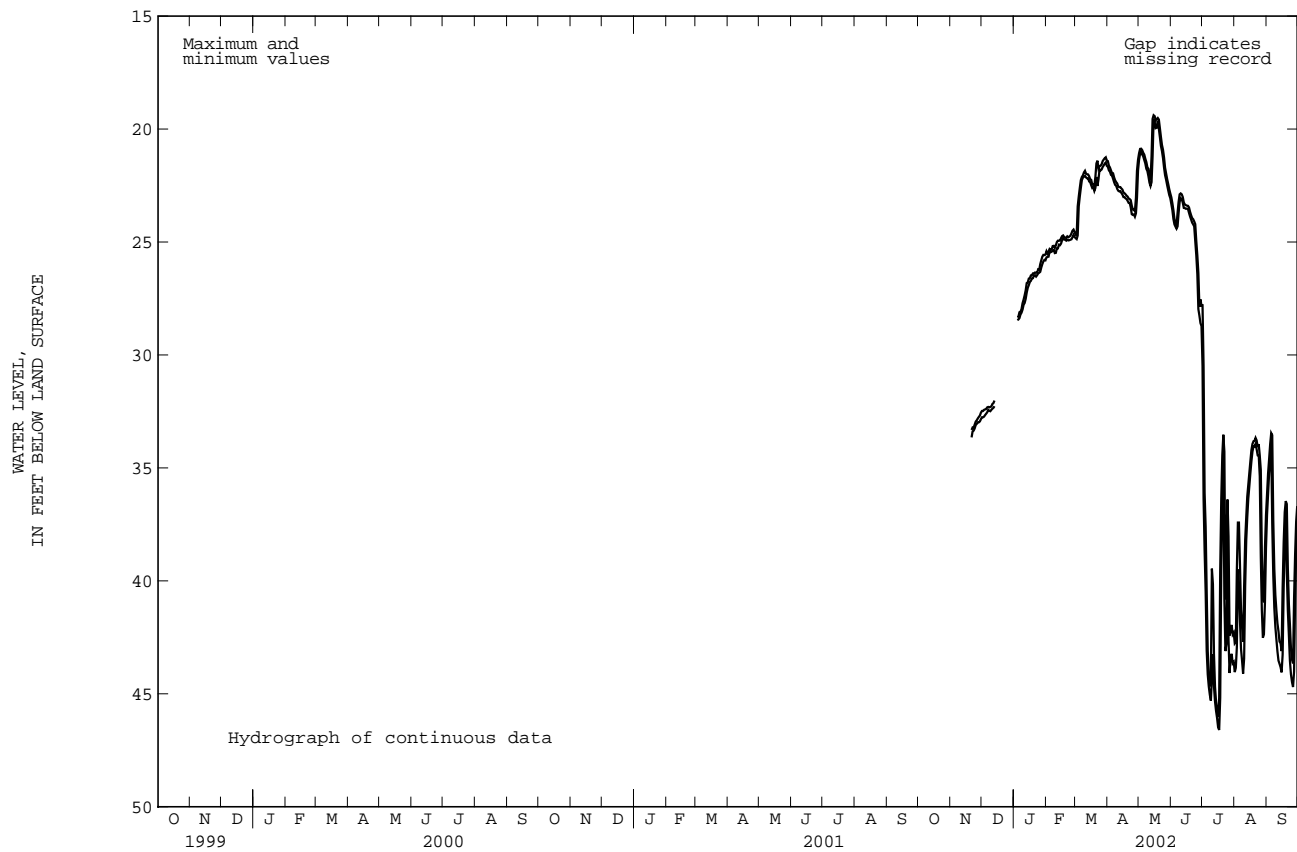
## GROUND-WATER LEVELS

## FAIRFIELD COUNTY--Continued

410515073415901. Local Number, GW 23.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

## GW 23



## FAIRFIELD COUNTY--Continued

412429073165101. Local Number, NT 15.

**LOCATION.**--Lat 41°24'29", long 73°16'51", Hydrologic Unit 01100005, 0.65 mi southwest of State Rt. 34 on Mile Hill Rd. and 0.25 mi north on a Fairfield State Hospital road, Newtown; Newtown quadrangle. Owner: State of Connecticut.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 1.25 in, depth 33 ft, plastic casing to 31 ft, well point 31 to 33 ft.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 2.20 ft above land-surface datum.

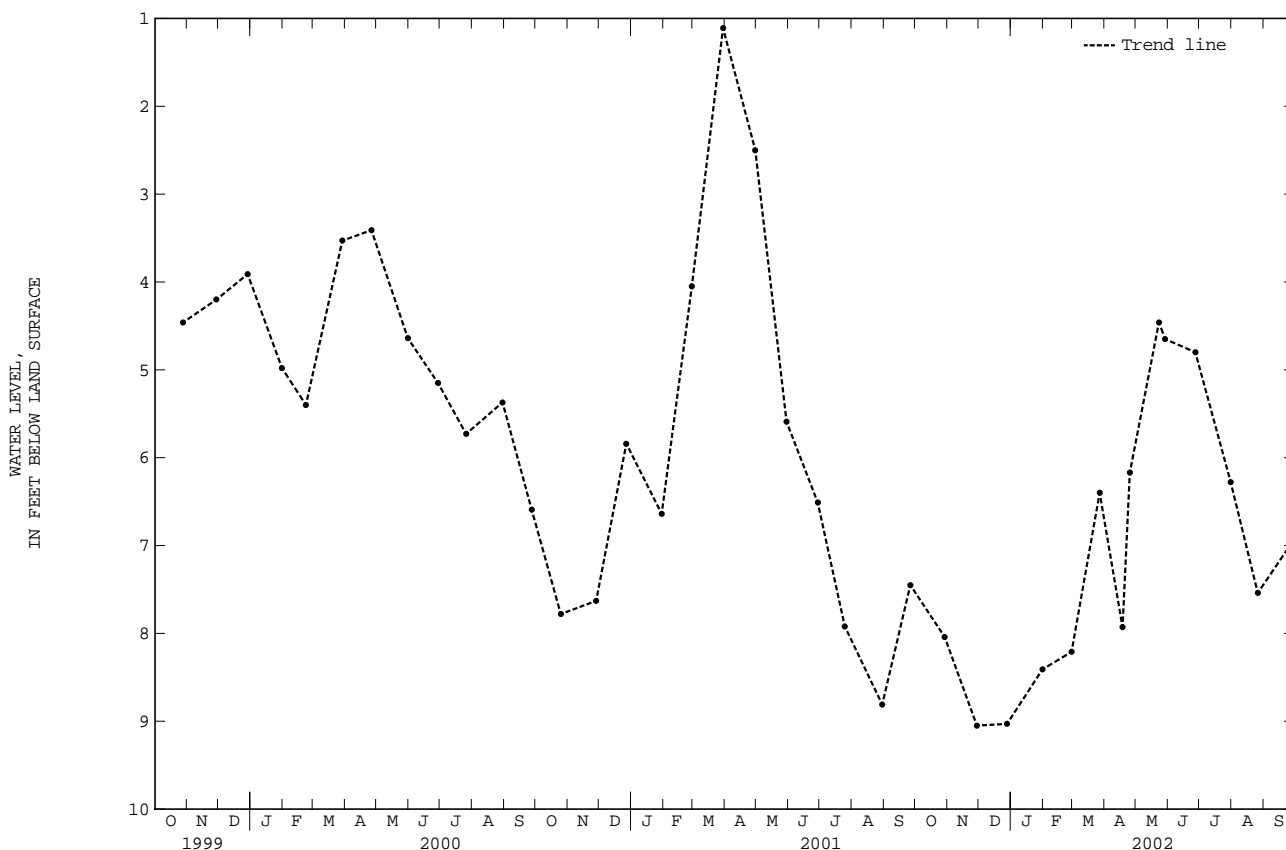
**PERIOD OF RECORD.**--December 1966 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.30 ft below land-surface datum, May 25, 1989; lowest water level measured, 11.14 ft below land-surface datum, Oct. 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	8.04	JAN 31	8.41	APR 18	7.93	MAY 29	4.65	AUG 26	7.54
NOV 29	9.05	FEB 28	8.21	MAY 25	6.17	JUN 27	4.80	SEP 27	6.98
DEC 28	9.03	MAR 27	6.40	MAY 23	4.46	JUL 31	6.28		
WATER YEAR 2002		HIGHEST	4.46	MAY 23, 2002	LOWEST	9.05	NOV 29, 2001		

## NT 15



GROUND-WATER LEVELS

HARTFORD COUNTY

414615072581601. Local Number, BU 2.

**LOCATION.**--Lat 41°46'15", long 72°58'16", Hydrologic Unit 01080207, 95 ft north of State Rt. 4 at junction with Rt. 69, Burlington; Collinsville quadrangle. Owner: Snow Realty, Bristol.

**AQUIFER.**--Stratified drift (sand and gravel) of Pleistocene age.

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 36 in, depth 42.72 ft, stone-lined.

**INSTRUMENTATION.**--ADR water-level recorder- 60 minute punch, May 2, 1986 through September 23, 1987. Prior to May 1986 and from February 29, 1988 to November 1990, measured monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 880 ft above sea level, from topographic map. Measuring point: Between hacksaw marks on manhole cover edge, 3.34 ft below original land-surface datum.

**PERIOD OF RECORD.**--April 1946 to September 1987 and February 1988 to current year.

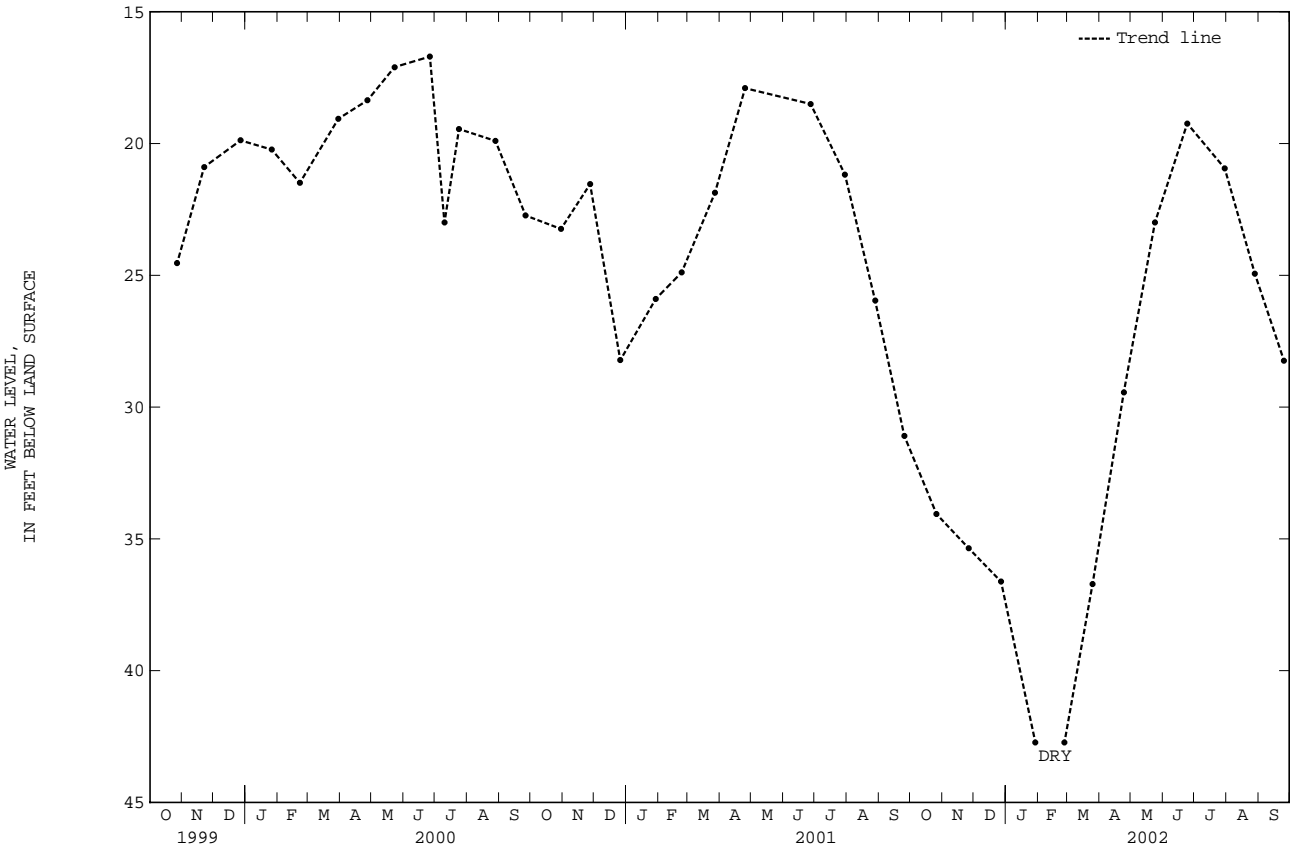
**REVISED RECORDS.**--WDR CT 99-01, 2002: Land-surface datum. Measuring point is 3.34 ft below original land-surface datum (not 8.84 ft below). 2002: Depth of well.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 12.70 ft below land-surface datum, Aug. 19, 1955; lowest water level measured, dry (lower than 42.72 ft below land-surface datum), Jan. 29, 2002; Feb. 26, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	34.06	JAN 29	DRY	MAR 25	36.71	JUN 24	19.24	SEP 25	28.24
NOV 26	35.36	FEB 26	DRY	APR 24	29.44	JUL 30	20.94		
DEC 27	36.62			MAY 24	22.99	AUG 28	24.94		
WATER YEAR 2002		HIGHEST	19.24	JUN 24, 2002	LOWEST	36.71	MAR 25, 2002		

BU 2



## GROUND-WATER LEVELS

301

## HARTFORD COUNTY--Continued

414615072581601. Local Number, BU 2.--Continued

## REVISED RECORDS:

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	29.77	DEC 23	30.77	MAR 25	18.52	JUN 28	20.42	SEP 23	26.88		
29	32.69	JAN 27	17.88	APR 27	18.10	JUL 26	24.62				
NOV 23	32.73	FEB 26	22.43	MAY 27	19.82	AUG 23	28.62				
WATER YEAR 1999		HIGHEST	17.88	JAN 27, 1999		LOWEST	32.73	NOV 23, 1998			

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	24.54	JAN 26	20.23	APR 27	18.36	JUL 10	23.00	SEP 26	22.73		
NOV 22	20.89	FEB 22	21.49	MAY 23	17.10	24	19.45				
DEC 27	19.88	MAR 30	19.06	JUN 26	16.70	AUG 28	19.90				
WATER YEAR 2000		HIGHEST	16.70	JUN 26, 2000		LOWEST	24.54	OCT 27, 1999			

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	23.24	DEC 26	28.22	FEB 23	24.89	APR 25	17.90	JUL 30	21.18	SEP 25	31.09
NOV 27	21.54	JAN 29	25.90	MAR 27	21.87	JUN 27	18.50	AUG 28	25.96		
WATER YEAR 2001		HIGHEST	17.90	APR 25, 2001		LOWEST	31.09	SEP 25, 2001			

## GROUND-WATER LEVELS

## HARTFORD COUNTY--Continued

414704072580501. Local Number, BU 143.

**LOCATION.**--Lat 41°47'04", long 72°58'05", Hydrologic Unit 01080207, 600 ft east of "T" in Covey Rd.; 20 ft off left side of roadway in pine tree grove, Burlington; Collinsville quadrangle. Owner: Town of Burlington.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in., depth 21.3 ft.

**INSTRUMENTATION.**--Since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 780 ft above sea level, from topographic map. Measuring point: Top of metal

protective case between two hacksaw marks, 2.20 ft above land-surface datum.

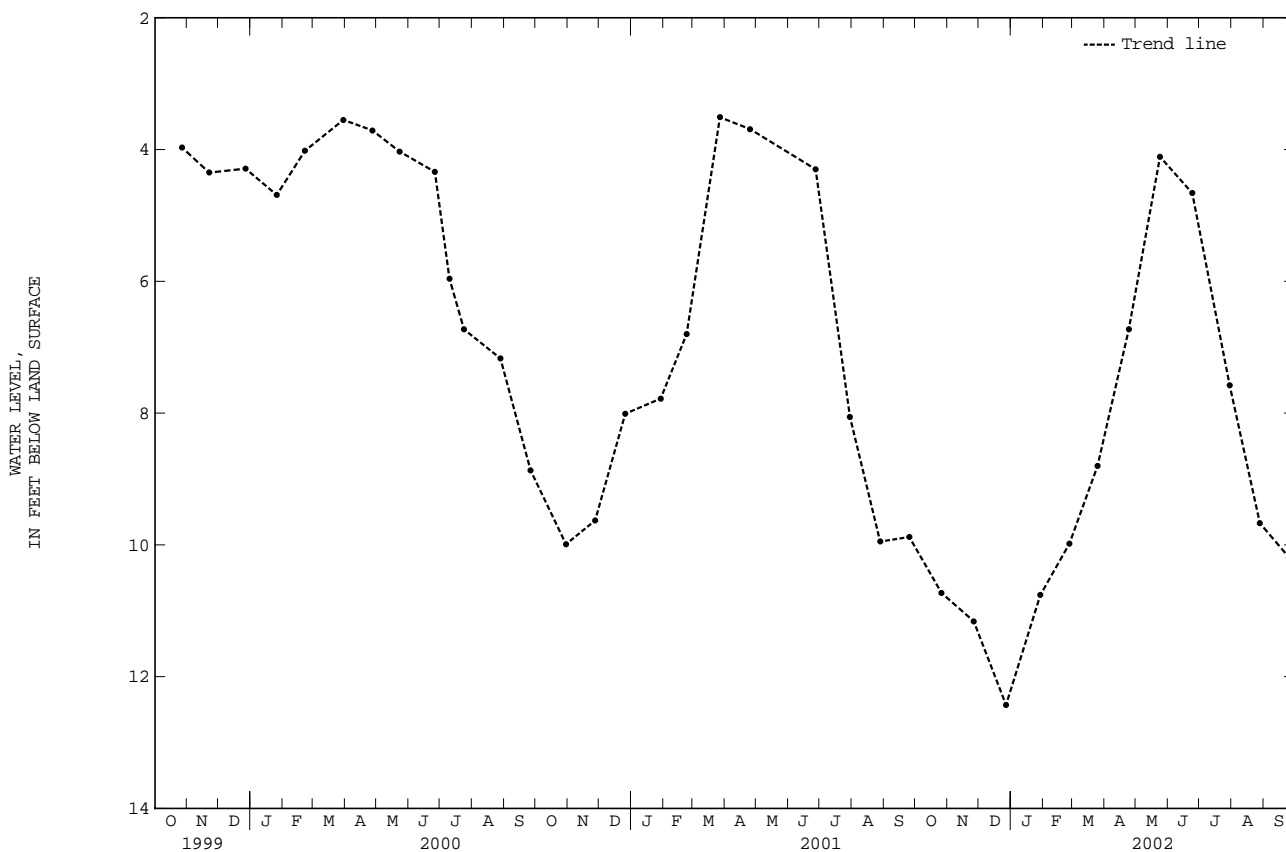
**PERIOD OF RECORD.**--October 1996 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 3.10 ft below land-surface datum, Mar. 25, 1999; lowest water level measured, 12.43 ft below land-surface datum, Dec. 27, 2001.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	10.73	DEC 27	12.43	FEB 26	9.98	APR 24	6.73	JUN 24	4.66	AUG 28	9.67
NOV 26	11.16	JAN 29	10.76	MAR 25	8.80	MAY 24	4.11	JUL 30	7.58	SEP 25	10.19
WATER YEAR 2002		HIGHEST		4.11	MAY 24, 2002		LOWEST		12.43	DEC 27, 2001	

## BU 143





## HARTFORD COUNTY--Continued

414649072574401. Local Number, BU 144.

**LOCATION.**--Lat 41°46'49", long 72°57'44", Hydrologic Unit 01080207, 15 ft south of 4-ft chainlink fence surrounding Burlington Recreation Area on Foote Rd., Burlington; Collinsville quadrangle. Owner: Town of Burlington.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in., depth 13.1 ft.

**INSTRUMENTATION.**--Since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 620 ft above sea level, from topographic map. Measuring point: Top of metal

protective case between two hacksaw marks, 3.00 ft above land-surface datum.

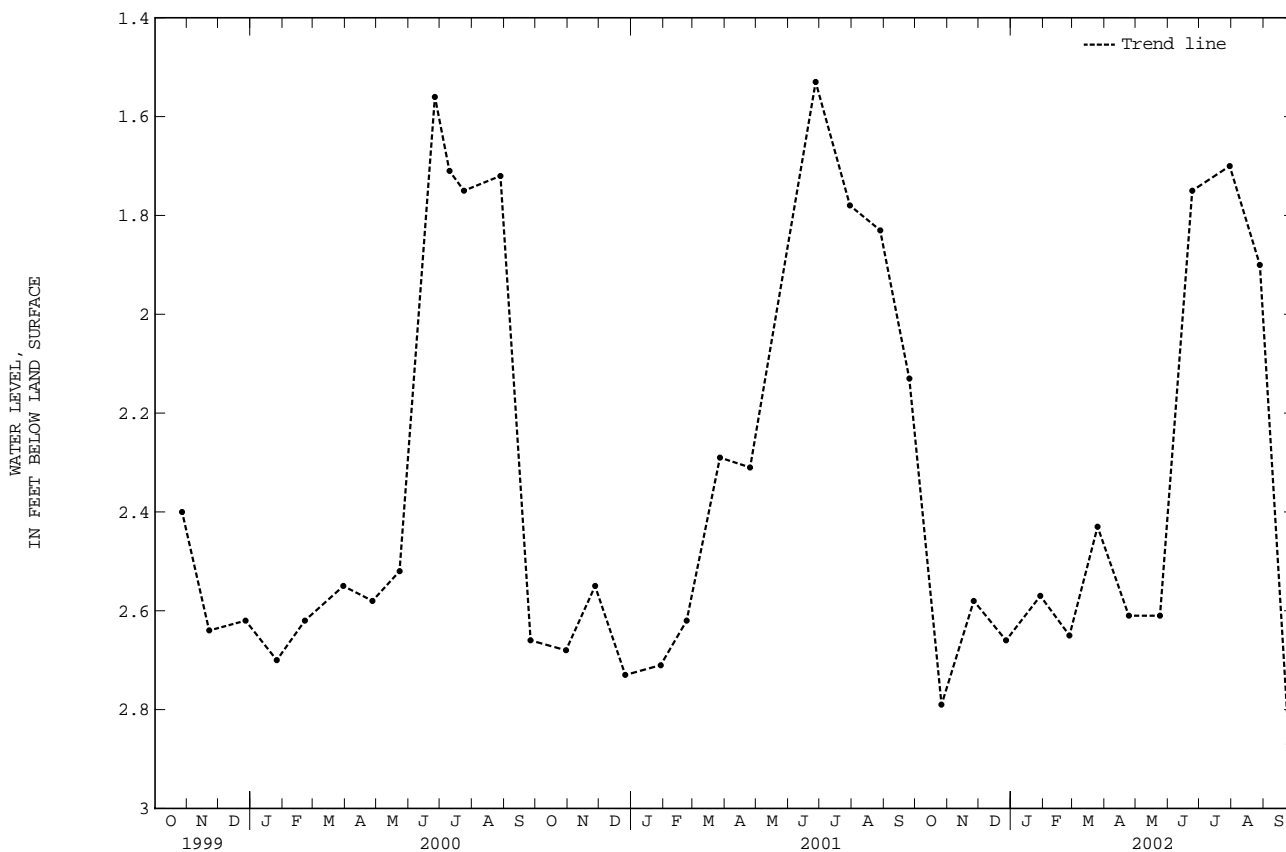
**PERIOD OF RECORD.**--October 1996 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 1.00 ft below land-surface datum, July 1, 1998; lowest water level measured, 3.62 ft below land-surface datum, Feb. 27, 1997.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	2.79	DEC 27	2.66	FEB 26	2.65	APR 24	2.61	JUN 24	1.75	AUG 28	1.90
NOV 26	2.58	JAN 29	2.57	MAR 25	2.43	MAY 24	2.61	JUL 30	1.70	SEP 25	2.87
WATER YEAR 2002		HIGHEST	1.70	JUL 30, 2002	LOWEST	2.87	SEP 25, 2002				

## BU 144



## GROUND-WATER LEVELS

## HARTFORD COUNTY--Continued

415450072332201. Local Number, EW 133.

**LOCATION.**--Lat 41°54'50", long 72°33'22", Hydrologic Unit 01080205, about 170 ft east of Church St. and about 75 ft south of Mill St. (State Rt. 191), 15 ft north of Broad Brook, East Windsor; Broad Brook quadrangle. Owner: Otto Fresse

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 22.6 ft, PVC casing, screened 21.6 to 22.6.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 40 ft above sea level, from topographic map. Measuring point: Between hacksaw marks on PVC well, 4.07 ft above land-surface datum.

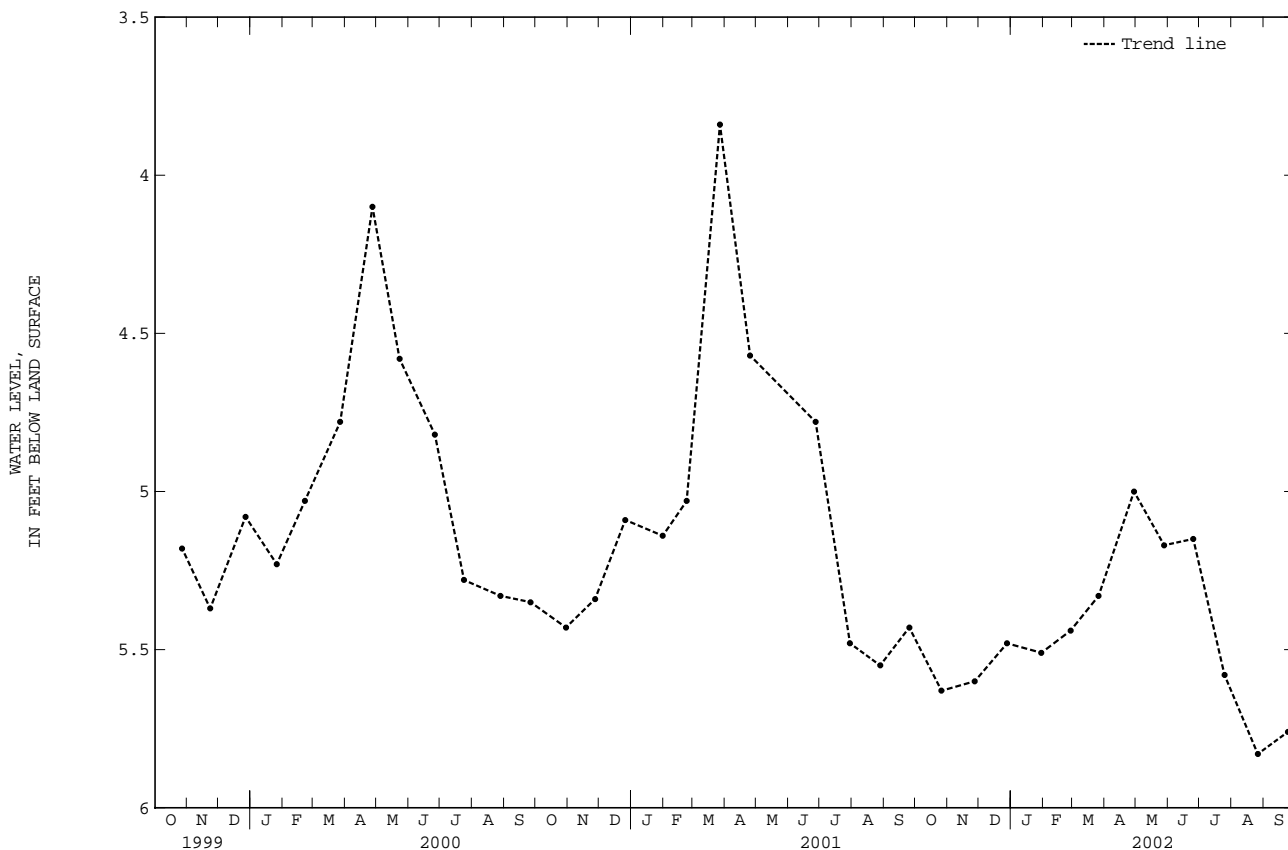
**PERIOD OF RECORD.**--January 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 1.40 ft below land-surface datum, May 25, 1989; lowest water level measured, 6.66 ft below land-surface datum, Sept. 29, 1986.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.63	DEC 28	5.48	FEB 27	5.44	APR 29	5.00	JUN 25	5.15	AUG 26	5.83
NOV 27	5.60	JAN 30	5.51	MAR 26	5.33	MAY 28	5.17	JUL 25	5.58	SEP 24	5.76
WATER YEAR 2002		HIGHEST	5.00	APR 29, 2002	LOWEST	5.83	AUG 26, 2002				

## EW 133



## HARTFORD COUNTY--Continued

415548072311301. Local Number, EW 134.

**LOCATION.**--Lat 41°55'48", long 72°31'13", Hydrologic Unit 01080205, about 400 ft east of East St. and about 0.75 mi north of Depot St., East Windsor; Broad Brook quadrangle. Owner: Myers Nursery

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 102.1 ft, PVC casing, screened 99.1 to 102.1 ft.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 185 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 1.25 ft above land-surface datum.

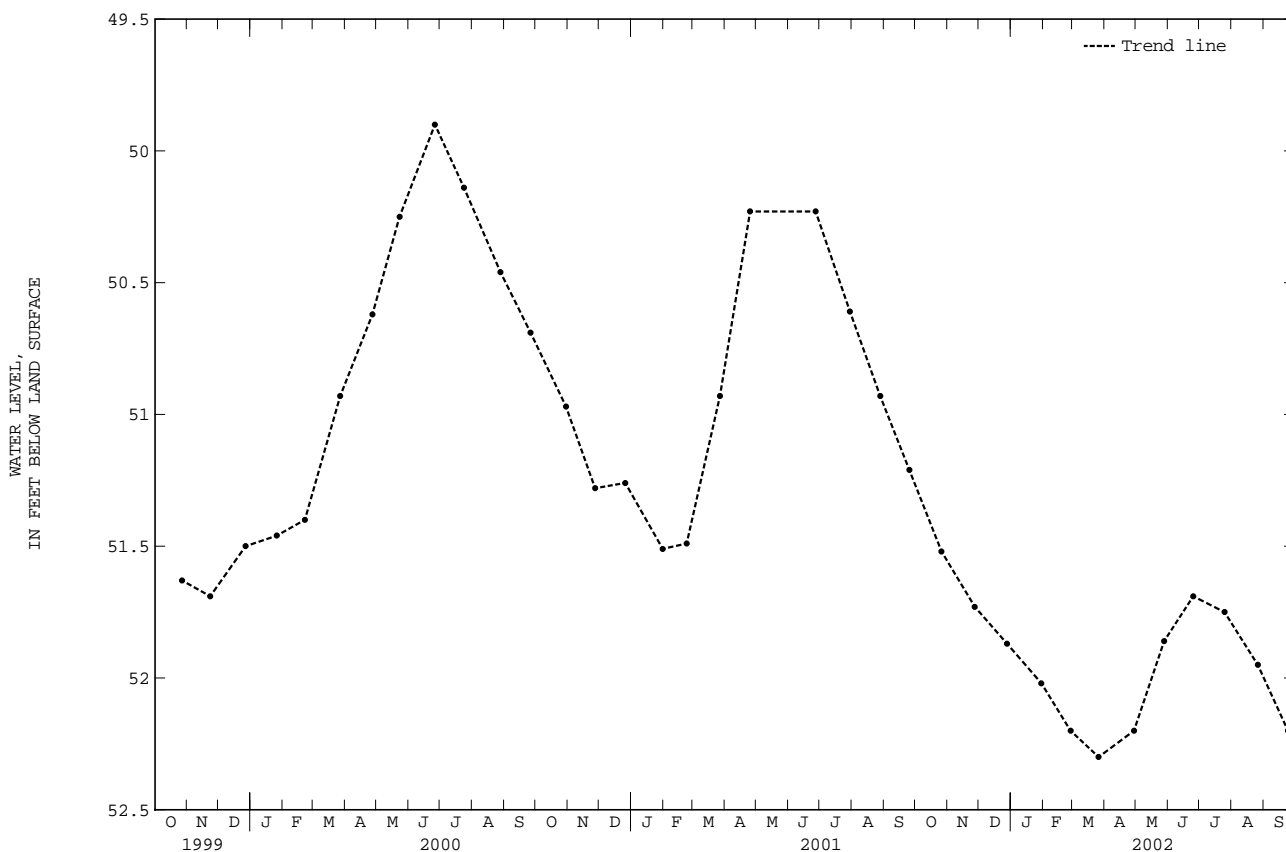
**PERIOD OF RECORD.**--January 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 48.91 ft below land-surface datum, June 14, 1991; lowest water level measured, 53.50 ft below land-surface datum, Feb. 24, 1999.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	51.52	DEC 28	51.87	FEB 27	52.20	APR 29	52.20	JUN 25	51.69	AUG 26	51.95
NOV 27	51.73	JAN 30	52.02	MAR 26	52.30	MAY 28	51.86	JUL 25	51.75	SEP 24	52.20
WATER YEAR 2002		HIGHEST	51.52	OCT 26, 2001	LOWEST	52.30	MAR 26, 2002				

## EW 134



## GROUND-WATER LEVELS

## HARTFORD COUNTY--Continued

415649072494801. Local Number, GR 328.

**LOCATION.**--Lat 41°56'49", long 72°49'48", Hydrologic Unit 01080207; 1,150 ft east of junction of Day St. and Simsbury Rd. on field lane to field, well is 320 ft east of fence line and 60 ft north of wood line and 10 ft from east fence line, Granby; Tariffville quadrangle. Owner: Town of Granby.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 22 ft, PVC casing, slotted 20 to 22 ft.

**INSTRUMENTATION.**--Prior to October 27, 1988 measurements made monthly with a chalked tape by State Natural Resources Center personnel; ADR water-level recorder with 60-minute punch installed October 27, 1988; intermittent water level measurements made with a chalked tape during water year 1993; measurements made biweekly with a chalked tape during water year 1994; from October 1994 through September 1996 measurements made biweekly with an electric tape by USGS personnel; since October 1996 measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 440 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 0.84 ft above land-surface datum.

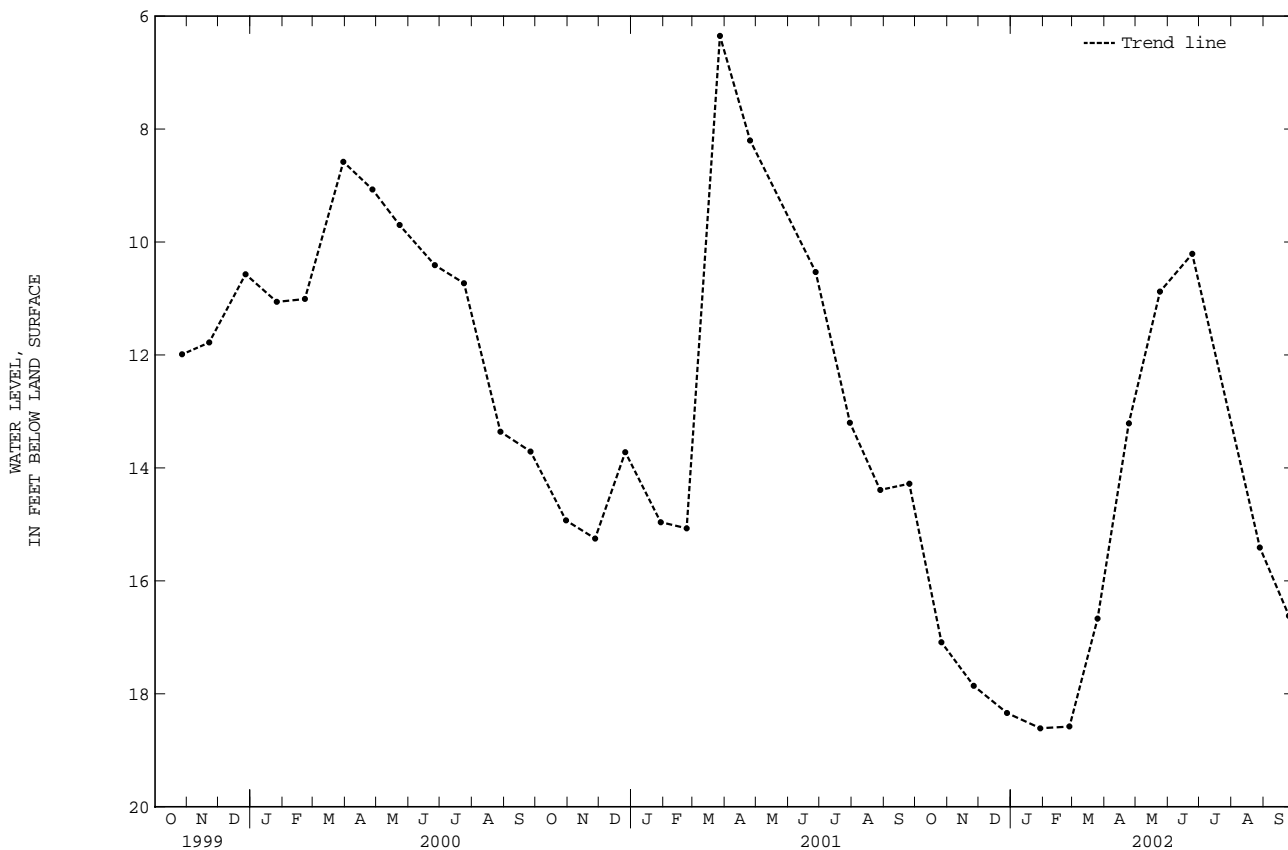
**PERIOD OF RECORD.**--June 1981 to September 1992. Only 4 measurements during water year 1993. October 1994 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 4.49 ft below land-surface datum, June 1, 1984; lowest water level measured, 18.61 ft below land-surface datum, Jan. 29, 2002.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	17.09	DEC 28	18.34	FEB 26	18.58	APR 24	13.21	JUN 24	10.21	SEP 25	16.62
NOV 26	17.86	JAN 29	18.61	MAR 25	16.67	MAY 24	10.88	AUG 28	15.41		
WATER YEAR 2002		HIGHEST	10.21	JUN 24, 2002	LOWEST	18.61	JAN 29, 2002				

## GR 328



## HARTFORD COUNTY--Continued

415647072495901. Local Number, GR 329.

**LOCATION.**--Lat 41°56'47", long 72°49'59", Hydrologic Unit 01080207; 1,150 ft east of junction of Day St. and Simsbury Rd. on field lane to field, well is 10 ft east of stone wall, 150 ft south of field lane along stone wall which runs north and south, Granby; Tariffville quadrangle. Owner: Town of Granby.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 22 ft, PVC casing, slotted 20 to 22 ft.

**INSTRUMENTATION.**--Prior to October 27, 1988 measurements made monthly with a chalked tape by State Natural Resources Center personnel; ADR water-level recorder with 60-minute punch installed October 27, 1988; intermittent water level measurements made with a chalked tape during water year 1993; measurements made biweekly with a chalked tape during water year 1994; from October 1994 through September 1996 measurements made biweekly with an electric tape by USGS personnel; since October 1996 measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 400 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 2.32 ft above land-surface datum.

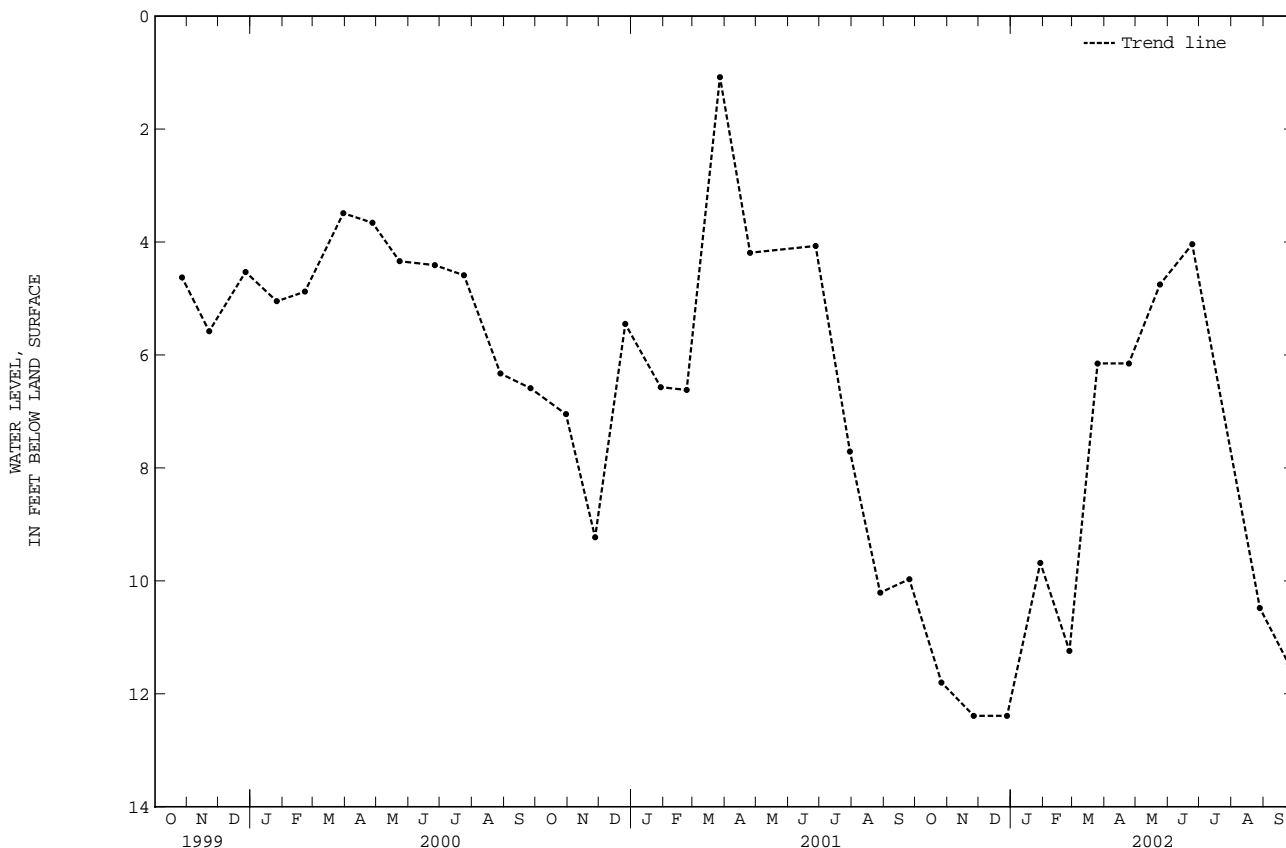
**PERIOD OF RECORD.**--May 1982 to September 1992. Only 4 measurements during water year 1993. October 1994 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.88 ft below land-surface datum, Jan. 26, 1996; lowest water level measured, 13.13 ft below land-surface datum, Oct. 28, 1988.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	11.80	DEC 28	12.39	FEB 26	11.24	APR 24	6.15	JUN 24	4.04	SEP 25	11.48
NOV 26	12.39	JAN 29	9.68	MAR 25	6.15	MAY 24	4.75	AUG 28	10.48		
WATER YEAR 2002		HIGHEST	4.04	JUN 24, 2002	LOWEST	12.39	NOV 26, 2001	DEC 28, 2001			

## GR 329



## GROUND-WATER LEVELS

## HARTFORD COUNTY--Continued

415643072502201. Local Number, GR 330.

**LOCATION.**--Lat 41°56'43", long 72°50'22", Hydrologic Unit 01080207; 1,000 ft west of junction of Day St. and Simsbury Rd. on west side of field, 50 ft from bank of West Branch Salmon Brook, 250 ft south along field, 10 ft west of edge of field, Granby; Tariffville quadrangle. Owner: Town of Granby.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water table well, diameter 2 in, depth 22 ft, PVC casing, slotted 20 to 22 ft.

**INSTRUMENTATION.**--Prior to October 27, 1988 measurements made monthly with a chalked tape by State Natural Resources Center personnel; ADR water-level recorder with 60-minute punch installed October 27, 1988; intermittent water level measurements made with a chalked tape during water year 1993; measurements made biweekly with a chalked tape during water year 1994; from October 1994 through September 1996 measurements made biweekly with an electric tape by USGS personnel; since October 1996 measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 309 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 2.29 ft above land-surface datum.

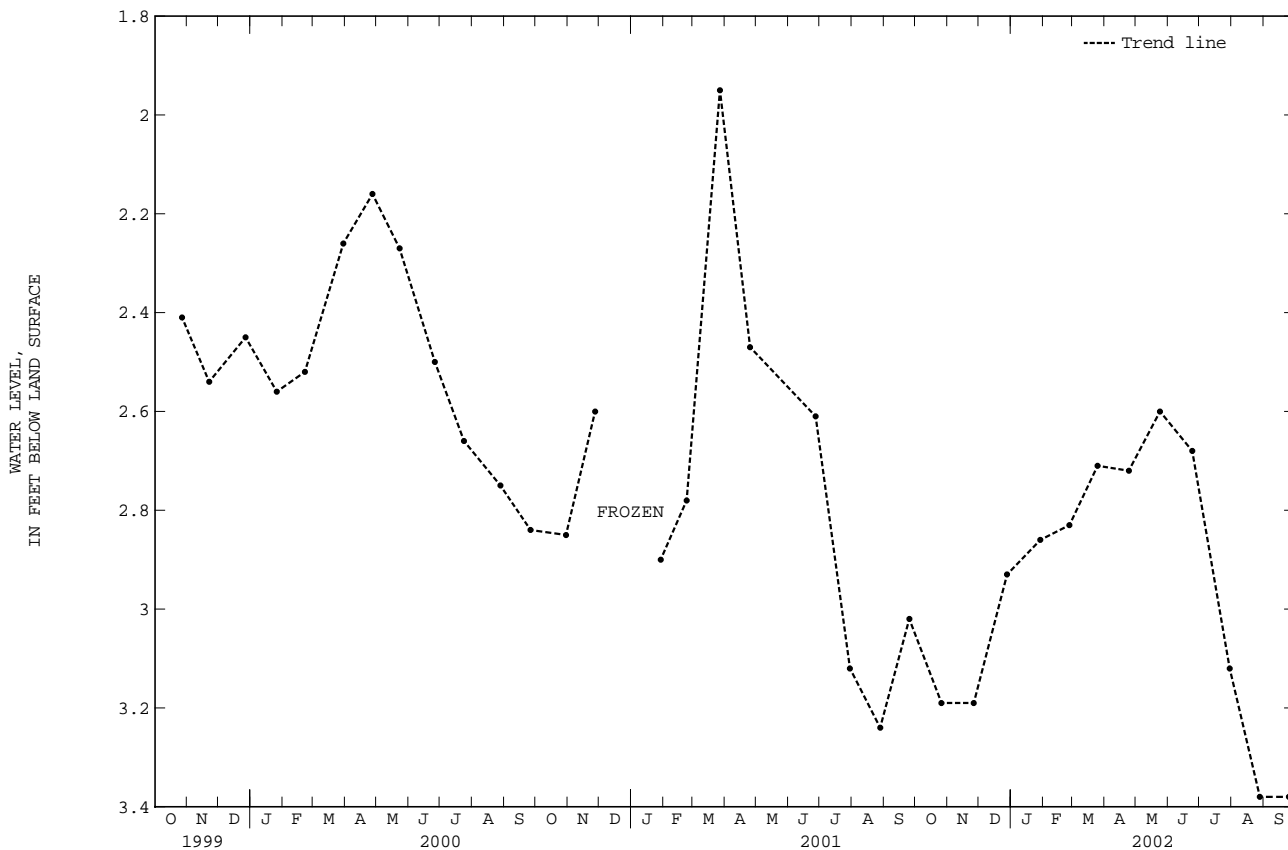
**PERIOD OF RECORD.**--May 1982 to September 1992. Only 4 measurements made during water year 1993. October 1994 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 1.50 ft below land-surface datum, Mar. 15, 1983; lowest water level measured, 5.83 ft below land-surface datum, July 26, 1999.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	3.19	DEC 28	2.93	FEB 26	2.83	APR 24	2.72	JUN 24	2.68	AUG 28	3.38
NOV 26	3.19	JAN 29	2.86	MAR 25	2.71	MAY 24	2.60	JUL 30	3.12	SEP 25	3.38
WATER YEAR 2002		HIGHEST	2.60	MAY 24, 2002	LOWEST	3.38	AUG 28, 2002		SEP 25, 2002		

## GR 330



## HARTFORD COUNTY--Continued

415653072501701. Local Number, GR 331.

**LOCATION.**--Lat 41°56'53", long 72°50'17", Hydrologic Unit 01080207; along north side of field road 30 ft west of Simsbury Rd., and 900 ft north from junction with Day St., Granby; Tariffville quadrangle. Owner: Town of Granby.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water table well, diameter 2 in, depth 31.5 ft, PVC casing, slotted 29.5 to 31.5 ft.

**INSTRUMENTATION.**--Prior to October 27, 1988 measurements made monthly with a chalked tape by State Natural Resources Center personnel; ADR water-level recorder with 60-minute punch installed October 27, 1988; intermittent water level measurements made with a chalked tape during water year 1993; measurements made biweekly with a chalked tape during water year 1994; from October 1994 through September 1996 measurements made biweekly with an electric tape by USGS personnel; since October 1996 measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 327 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 2.36 ft above land-surface datum.

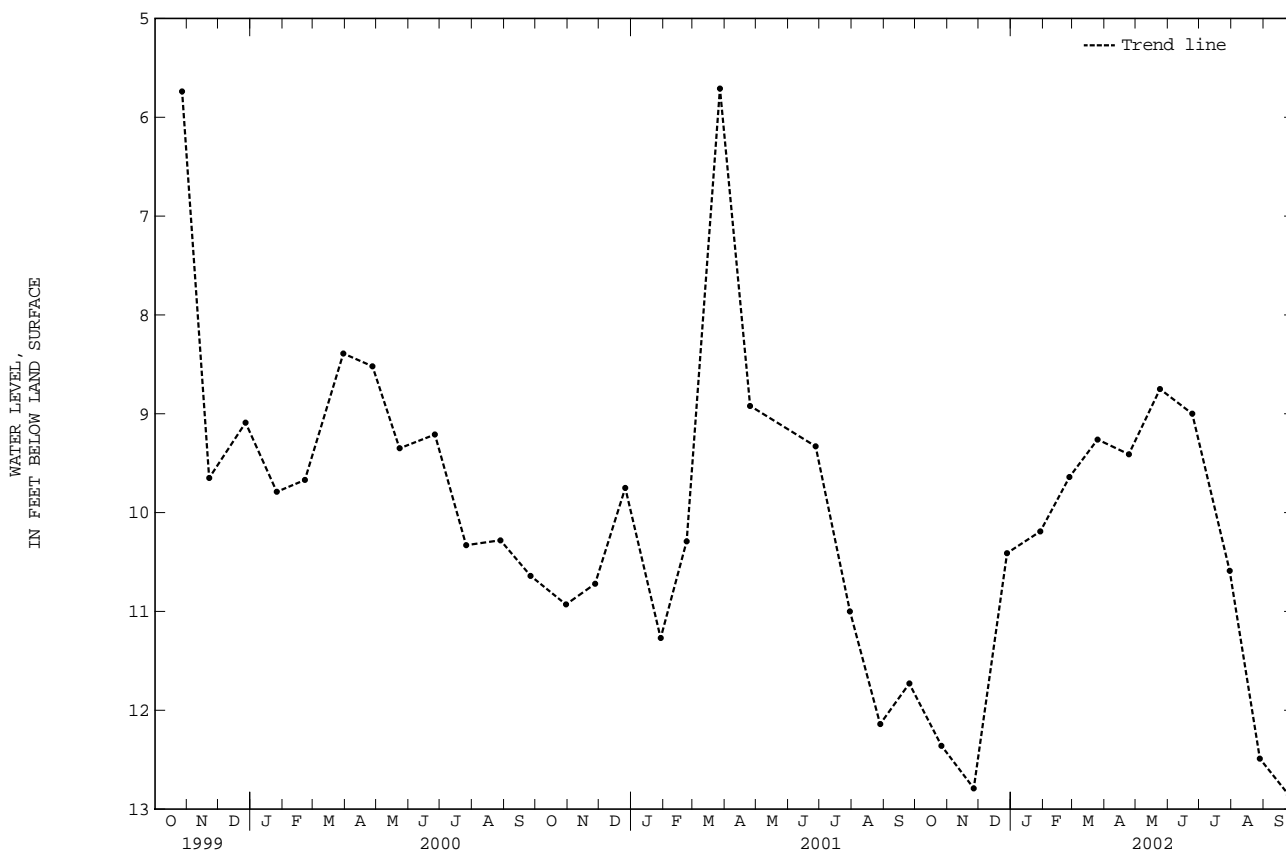
**PERIOD OF RECORD.**--March 1983 to September 1992. Only 4 measurements made during water year 1993. October 1994 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 4.41 ft below land-surface datum, Apr. 22, 1983; lowest water level measured, 13.30 ft below land-surface datum, Sept. 29, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	12.36	DEC 28	10.41	FEB 26	9.64	APR 24	9.41	JUN 24	9.00	AUG 28	12.49
NOV 26	12.79	JAN 29	10.19	MAR 25	9.26	MAY 24	8.75	JUL 30	10.59	SEP 25	12.86
WATER YEAR 2002		HIGHEST	8.75	MAY 24, 2002	LOWEST	12.86	SEP 25, 2002				

## GR 331



## GROUND-WATER LEVELS

## HARTFORD COUNTY--Continued

413535072253701. Local Number, MB 32.

**LOCATION.**--Lat 41°35'35", long 72°25'37", Hydrologic Unit 01080205, in southwest corner of field about 25 ft east of 4H Camp road at sharp turn to the west, which is about 1,000 ft southeast of South Rd., Marlborough; Moodus quadrangle. Owner: Hartford County 4H.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 16.5 ft, PVC casing, screened 14.6 to 16.5 ft.

**INSTRUMENTATION.**--Prior to September 1991 measurements made monthly; from September 1991 through September 1993 measurements made with a chalked tape by State Natural Resources Center personnel; from October 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Submersible pressure transducer/data logger installed June 9, 1999, collects 1-hour water level data. All measurements since October 1993 made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 255 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 2.50 ft above land-surface datum.

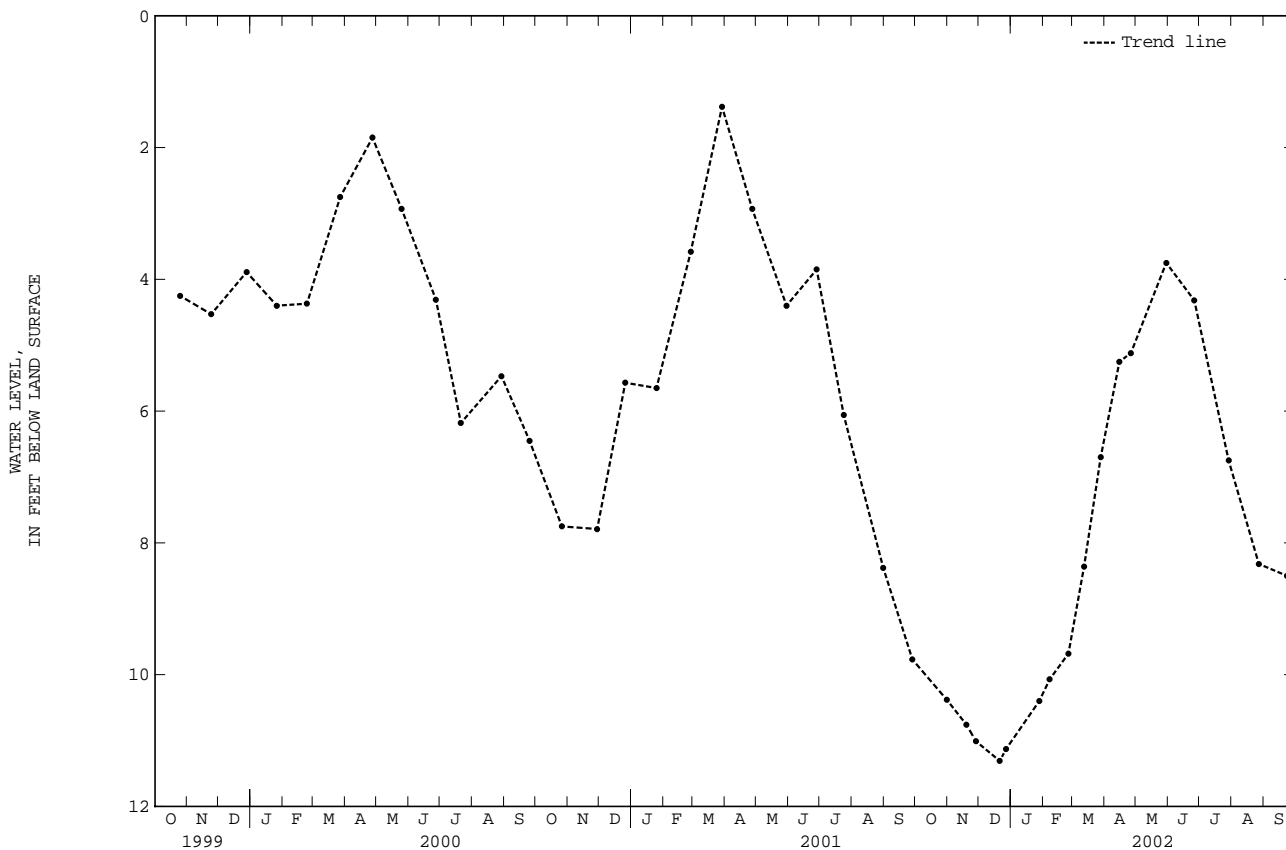
**PERIOD OF RECORD.**--January 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.30 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 11.31 ft below land-surface datum, Dec. 21, 2001.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	10.38	DEC 21	11.31	FEB 07	10.07	MAR 28	6.70	MAY 30	3.75	AUG 27	8.32
NOV 19	10.76	27	11.13	25	9.68	APR 15	5.25	JUN 26	4.32	SEP 23	8.50
28	11.01	JAN 28	10.40	MAR 12	8.36	26	5.12	JUL 29	6.75		
WATER YEAR 2002		HIGHEST	3.75	MAY 30, 2002	LOWEST	11.31	DEC 21, 2001				

## MB 32





## GROUND-WATER LEVELS

311

## HARTFORD COUNTY--Continued

413535072253701. Local Number, MB 32.--Continued

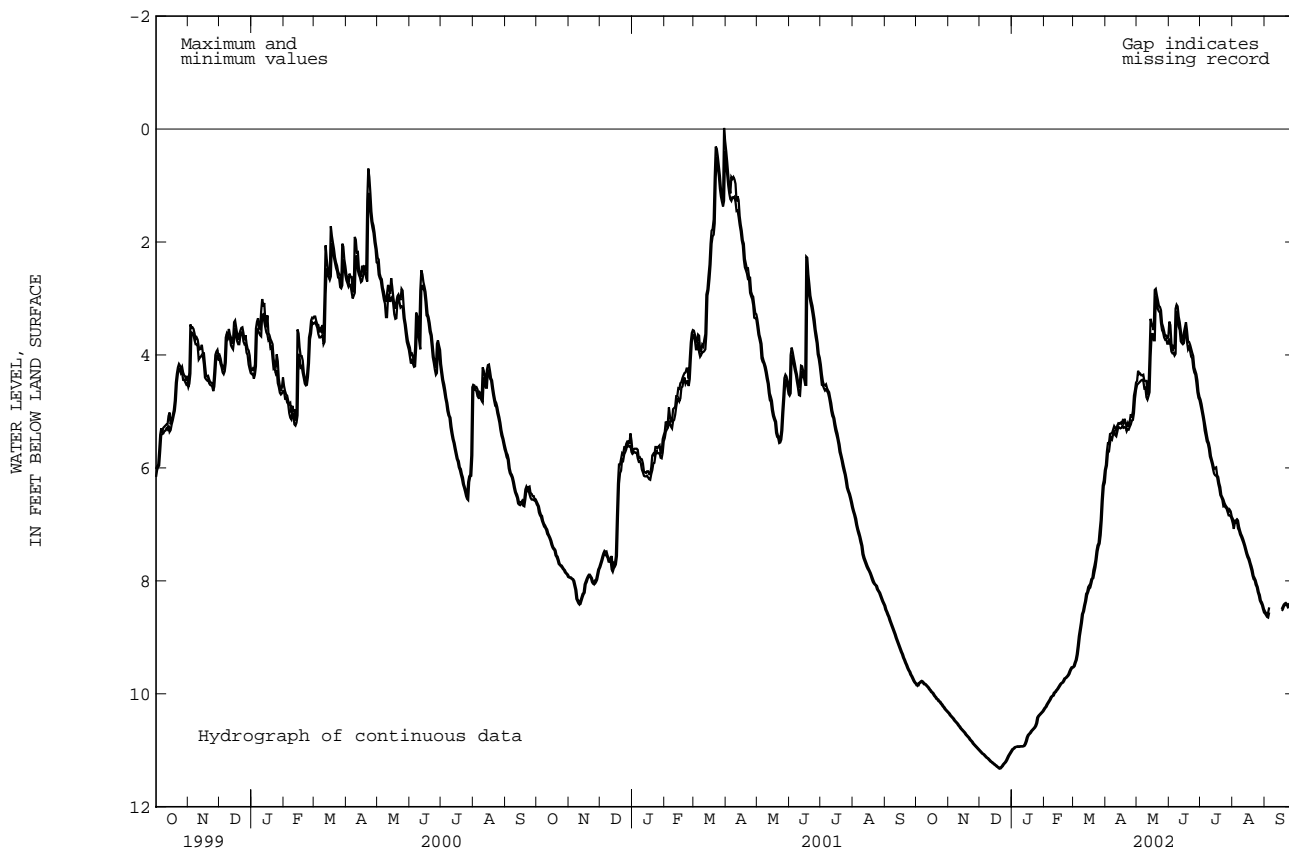
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	9.85	9.82	10.35	10.33	11.02	11.00	11.01	10.98	10.28	10.25	9.53	9.51
2	9.85	9.85	10.38	10.35	11.04	11.02	10.98	10.97	10.25	10.23	9.51	9.45
3	9.85	9.81	10.40	10.38	11.06	11.04	10.97	10.95	10.23	10.19	9.45	9.40
4	9.81	9.80	10.42	10.40	11.07	11.06	10.95	10.94	10.19	10.16	9.40	9.30
5	9.80	9.78	10.44	10.42	11.09	11.07	10.94	10.94	10.16	10.13	9.30	9.15
6	9.79	9.77	10.47	10.44	11.11	11.09	10.94	10.93	10.13	10.10	9.15	8.98
7	9.80	9.78	10.49	10.47	11.13	11.11	10.94	10.93	10.10	10.06	8.98	8.86
8	9.83	9.80	10.51	10.49	11.14	11.13	10.94	10.93	10.06	10.04	8.86	8.74
9	9.83	9.82	10.53	10.51	11.16	11.14	10.93	10.93	10.04	10.03	8.74	8.59
10	9.85	9.83	10.56	10.53	11.18	11.16	10.93	10.93	10.03	9.98	8.59	8.54
11	9.87	9.85	10.58	10.56	11.20	11.18	10.93	10.93	9.98	9.97	8.54	8.44
12	9.89	9.87	10.61	10.58	11.21	11.20	10.93	10.92	9.97	9.94	8.44	8.36
13	9.92	9.89	10.63	10.61	11.23	11.21	10.92	10.89	9.94	9.92	8.36	8.23
14	9.94	9.92	10.65	10.63	11.24	11.23	10.89	10.84	9.92	9.89	8.25	8.20
15	9.97	9.94	10.67	10.65	11.26	11.24	10.84	10.77	9.89	9.86	8.20	8.11
16	9.98	9.97	10.69	10.67	11.27	11.26	10.77	10.73	9.86	9.83	8.14	8.08
17	10.01	9.98	10.72	10.69	11.29	11.27	10.73	10.71	9.83	9.81	8.12	8.05
18	10.04	10.01	10.74	10.72	11.30	11.29	10.71	10.69	9.81	9.80	8.05	7.97
19	10.06	10.04	10.76	10.74	11.32	11.30	10.69	10.66	9.80	9.77	7.97	7.95
20	10.09	10.06	10.78	10.76	11.32	11.32	10.66	10.64	9.77	9.73	7.95	7.81
21	10.10	10.09	10.81	10.78	11.32	11.30	10.64	10.62	9.73	9.72	7.85	7.73
22	10.13	10.10	10.83	10.81	11.30	11.28	10.62	10.60	9.72	9.70	7.76	7.63
23	10.14	10.13	10.85	10.83	11.28	11.25	10.60	10.57	9.70	9.68	7.63	7.47
24	10.17	10.14	10.88	10.85	11.25	11.23	10.57	10.52	9.68	9.65	7.48	7.37
25	10.19	10.17	10.90	10.88	11.23	11.21	10.52	10.42	9.65	9.60	7.39	7.33
26	10.22	10.19	10.92	10.90	11.21	11.18	10.42	10.39	9.60	9.56	7.34	7.12
27	10.24	10.22	10.94	10.92	11.18	11.14	10.39	10.37	9.56	9.53	7.19	6.93
28	10.27	10.24	10.96	10.94	11.14	11.10	10.37	10.35	9.54	9.53	6.93	6.58
29	10.29	10.27	10.98	10.96	11.10	11.07	10.35	10.33	---	---	6.58	6.31
30	10.31	10.29	11.00	10.98	11.07	11.04	10.33	10.31	---	---	6.32	6.22
31	10.33	10.31	---	---	11.04	11.01	10.31	10.28	---	---	6.26	6.04
MONTH	10.33	9.77	11.00	10.33	11.32	11.00	11.01	10.28	10.28	9.53	9.53	6.04
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	6.04	5.95	4.53	4.46	3.71	3.41	4.89	4.79	6.98	6.90	8.58	8.54
2	5.96	5.71	4.51	4.28	3.81	3.47	4.98	4.87	7.08	6.94	8.61	8.57
3	5.73	5.56	4.49	4.34	3.94	3.79	5.08	4.98	6.97	6.94	8.64	8.60
4	5.71	5.56	4.47	4.33	3.97	3.93	5.19	5.08	6.97	6.93	8.65	8.56
5	5.56	5.40	4.45	4.36	3.96	3.85	5.34	5.19	6.94	6.91	8.56	8.47
6	5.46	5.39	4.44	4.36	4.01	3.87	5.43	5.30	7.07	6.93	---	---
7	5.49	5.38	4.46	4.35	3.98	3.18	5.53	5.41	7.11	7.04	---	---
8	5.40	5.32	4.59	4.46	3.22	3.11	5.57	5.51	7.18	7.11	---	---
9	5.33	5.26	4.58	4.46	3.32	3.14	5.66	5.56	7.22	7.17	---	---
10	5.42	5.29	4.75	4.46	3.50	3.32	5.80	5.65	7.27	7.21	---	---
11	5.44	5.34	4.79	4.70	3.56	3.42	5.86	5.79	7.32	7.26	---	---
12	5.36	5.25	4.73	4.59	3.76	3.56	5.93	5.86	7.38	7.32	---	---
13	5.27	5.21	4.66	4.03	3.79	3.73	6.02	5.93	7.45	7.38	---	---
14	5.29	5.22	4.03	3.36	3.81	3.75	6.10	6.02	7.52	7.45	---	---
15	5.30	5.20	3.63	3.45	3.79	3.60	6.13	6.00	7.58	7.52	---	---
16	5.29	5.22	3.63	3.49	3.61	3.51	6.14	5.99	7.62	7.57	---	---
17	5.26	5.17	3.74	3.56	3.57	3.42	6.17	6.13	7.68	7.61	8.53	8.50
18	5.29	5.21	3.74	2.85	3.77	3.57	6.28	6.16	7.75	7.68	8.51	8.46
19	5.28	5.13	2.96	2.83	3.90	3.76	6.36	6.27	7.82	7.74	8.46	8.42
20	5.28	5.20	3.04	2.94	3.86	3.77	6.48	6.34	7.91	7.81	8.43	8.40
21	5.35	5.26	3.19	3.03	3.93	3.82	6.52	6.48	7.97	7.91	8.42	8.39
22	5.31	5.21	3.23	3.13	4.03	3.89	6.57	6.52	7.99	7.95	8.43	8.41
23	5.32	5.27	3.24	3.15	4.06	3.96	6.68	6.56	8.07	7.99	8.47	8.42
24	5.27	5.17	3.44	3.21	4.23	4.02	6.67	6.62	8.11	8.06	8.46	8.43
25	5.23	5.05	3.56	3.44	4.31	4.22	6.70	6.66	8.20	8.11	8.44	8.39
26	5.16	5.11	3.60	3.50	4.35	4.28	6.72	6.69	8.26	8.20	8.39	8.33
27	5.15	4.99	3.69	3.58	4.49	4.34	6.78	6.71	8.35	8.25	8.33	8.20
28	5.03	4.72	3.73	3.67	4.66	4.45	6.84	6.78	8.39	8.35	8.21	8.10
29	4.77	4.62	3.72	3.66	4.76	4.65	6.84	6.74	8.43	8.38	8.10	7.94
30	4.62	4.49	3.80	3.70	4.80	4.74	6.86	6.77	8.50	8.43	7.94	7.81
31	---	---	3.80	3.69	---	---	6.91	6.86	8.56	8.50	---	---
MONTH	6.04	4.49	4.79	2.83	4.80	3.11	6.91	4.79	8.56	6.90	---	---

GROUND-WATER LEVELS  
HARTFORD COUNTY--Continued

413535072253701. Local Number, MB 32.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

MB 32



## HARTFORD COUNTY--Continued

413554072270201. Local Number, MB 35.

**LOCATION.**--Lat 41°35'54", long 72°27'02", Hydrologic Unit 01080205, Ogden Lord Rd., 1 mi north of Colchester Town line, 20 ft west of road, Marlborough; Moodus quadrangle. Owner: State of Connecticut.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 20.5 ft, PVC casing, screened 15.5 to 20.5 ft.

**INSTRUMENTATION.**--From August 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 515 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 2.0 ft above land-surface datum.

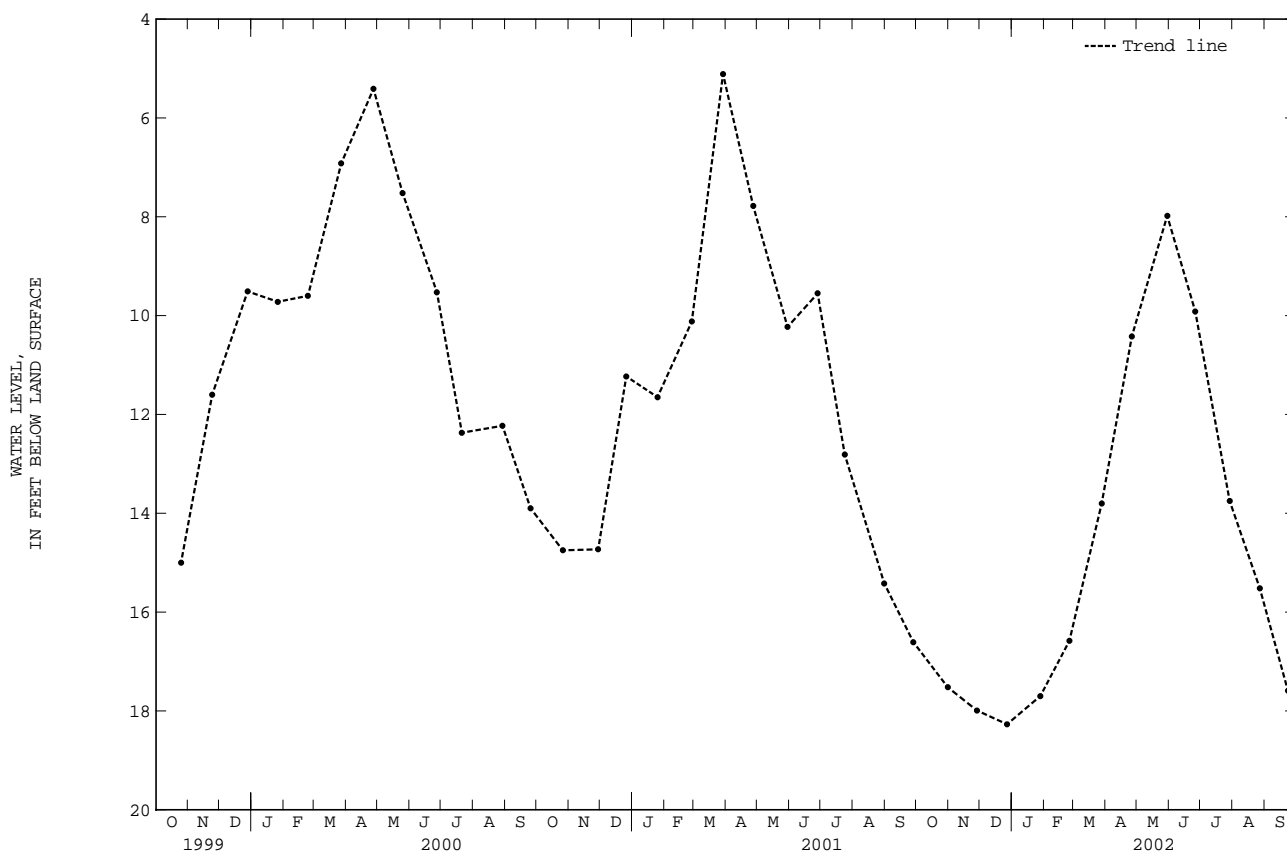
**PERIOD OF RECORD.**--August 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 3.67 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 18.74 ft below land-surface datum, Oct. 28, 1993.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	17.52	DEC 27	18.27	FEB 25	16.58	APR 26	10.42	JUN 26	9.92	AUG 27	15.52
NOV 28	17.99	JAN 28	17.70	MAR 28	13.80	MAY 30	7.98	JUL 29	13.75	SEP 23	17.59
WATER YEAR 2002		HIGHEST	7.98	MAY 30, 2002		LOWEST	18.27	DEC 27, 2001			

## MB 35



## GROUND-WATER LEVELS

## HARTFORD COUNTY--Continued

413518072264501. Local Number, MB 36.

**LOCATION.**--Lat 41°35'18", long 72°26'45", Hydrologic Unit 01080205, Ogden Lord Rd., 1,000 ft north of Colchester Town line, 60 ft west of road, Marlborough; Moodus quadrangle. Owner: State of Connecticut.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 18.55 ft, PVC casing, screened 13.55 to 18.55 ft.

**INSTRUMENTATION.**--From August 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 485 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 2.50 ft above land-surface datum.

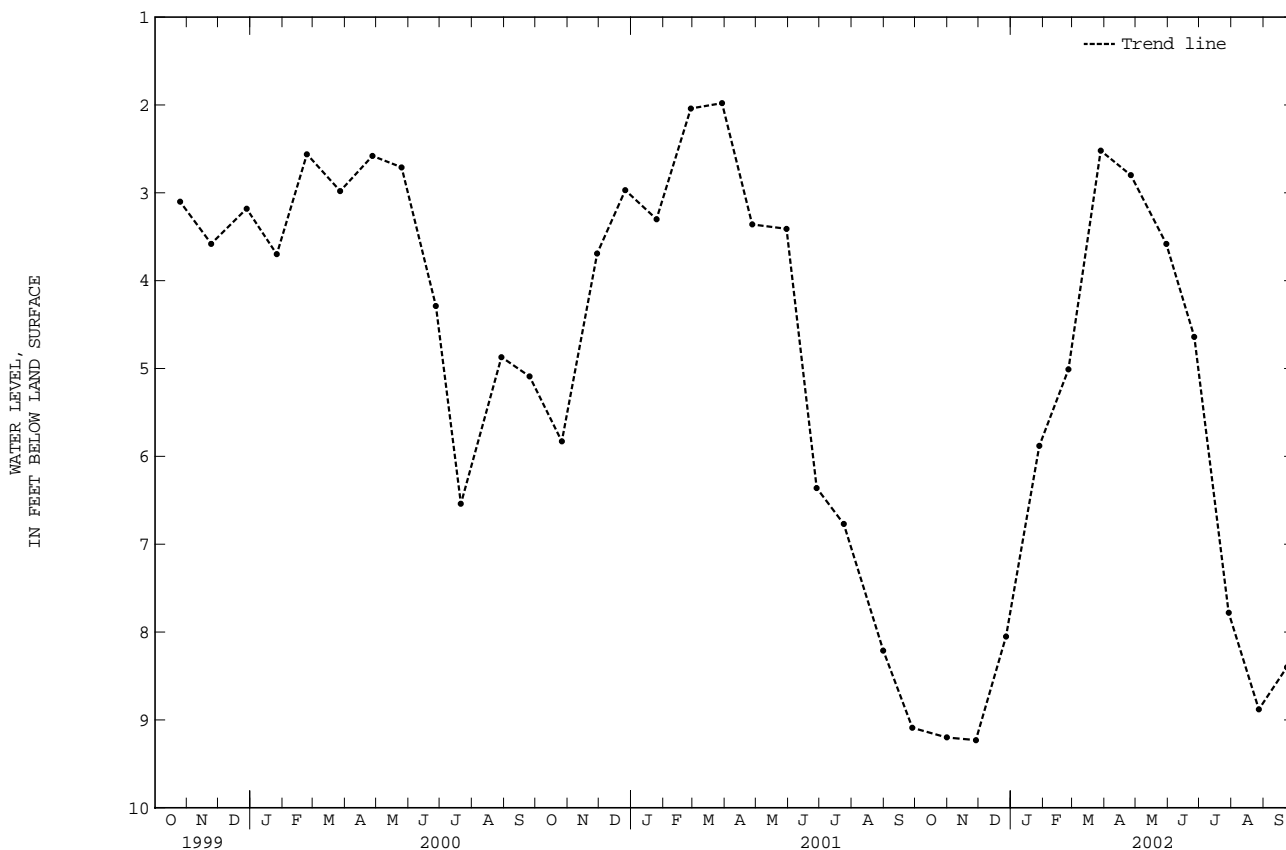
**PERIOD OF RECORD.**--August 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.98 ft below land-surface datum, Nov. 24, 1996; lowest water level measured, 9.69 ft below land-surface datum, Sept. 13, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	9.20	DEC 27	8.05	FEB 25	5.01	APR 26	2.80	JUN 26	4.64	AUG 27	8.88
NOV 28	9.23	JAN 28	5.88	MAR 28	2.52	MAY 30	3.58	JUL 29	7.78	SEP 23	8.40
WATER YEAR 2002		HIGHEST	2.52	MAR 28, 2002	LOWEST		9.23	NOV 28, 2001			

## MB 36



## HARTFORD COUNTY--Continued

414910072372101. Local Number, SW 64.

**LOCATION.**--Lat 41°49'10", long 72°37'21", Hydrologic Unit 01080205, 15 ft north of apartment building at 652-9 Main St. in grass lawn, South Windsor; Manchester quadrangle. Owner: Frank Pierce, Jr.

**AQUIFER.**--Stratified drift of Pleistocene age (sand).

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 24 in, depth 18 ft, brick-lined.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to May 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 40 ft above sea level, from topographic map. Measuring point: Top edge of hole in flagstone cover, 0.50 ft above land-surface datum.

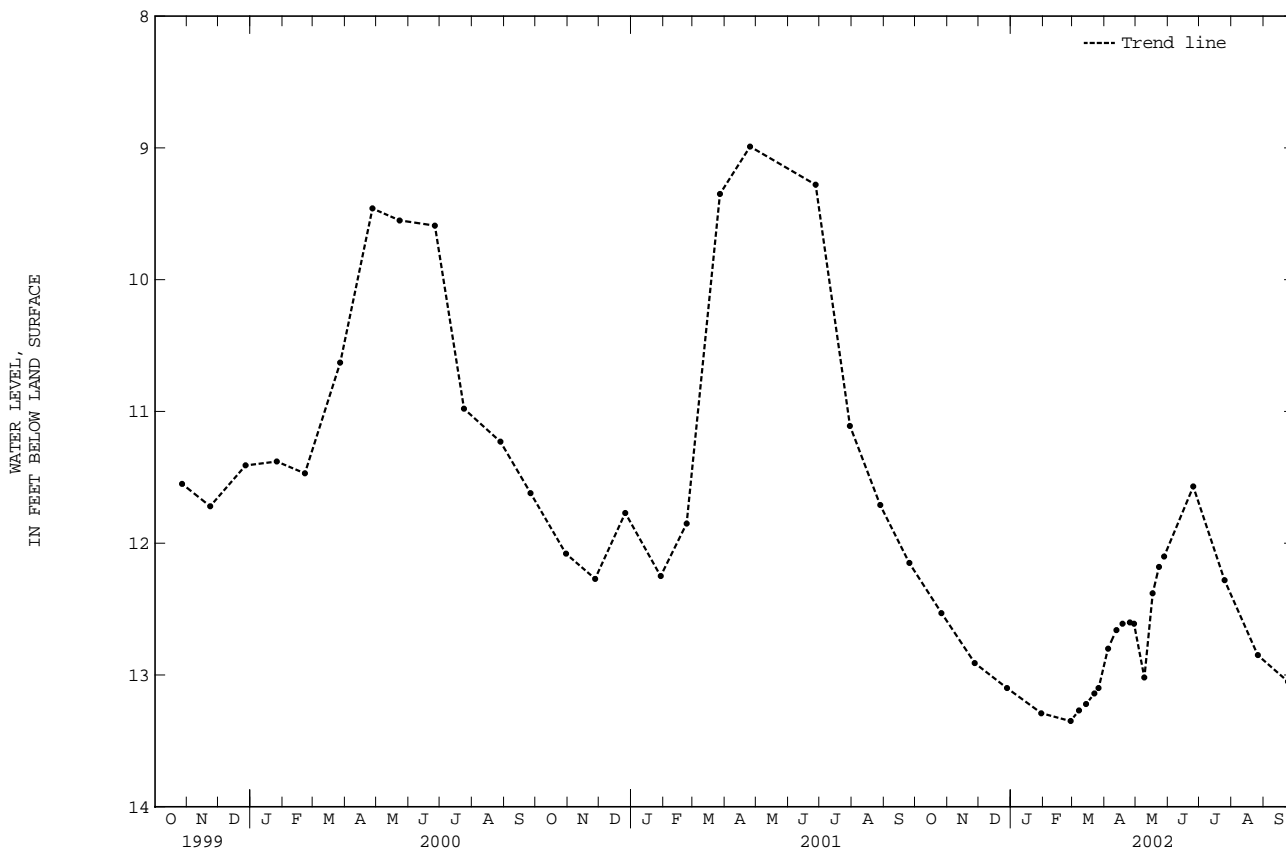
**PERIOD OF RECORD.**--October 1934 to September 1939 and October 1948 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 7.12 ft below land-surface datum, Apr. 26, 1983; lowest water level measured, 15.22 ft below land-surface datum, Jan. 26, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	12.53	FEB 27	13.35	MAR 26	13.10	APR 25	12.60	MAY 23	12.18	AUG 26	12.85
NOV 27	12.91	MAR 07	13.27	APR 04	12.80	29	12.61	28	12.10	SEP 24	13.05
DEC 28	13.10	14	13.22	12	12.66	MAY 09	13.02	JUN 25	11.57		
JAN 30	13.29	22	13.14	18	12.61	17	12.38	JUL 25	12.28		
WATER YEAR 2002		HIGHEST	11.57	JUN 25, 2002	LOWEST	13.35	FEB 27, 2002				

## SW 64



## GROUND-WATER LEVELS

## LITCHFIELD COUNTY

420125073193001. Local Number, NOC 7.

**LOCATION.**--Lat 42°01'25", long 73°19'30", Hydrologic Unit 01100005, 300 ft south and 75 ft west of junction of State Rts. 7 and 44, North Canaan; Ashley Falls quadrangle. Owner: James Lyle.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 24 in, depth 12 ft, fieldstone-lined.

**INSTRUMENTATION.**--Measurements made weekly, July 18, 1988 to August 31, 1989. Prior to July 18, 1988 measured monthly; since August 31, 1989 measured biweekly with a chalked tape by observer. Additional measurements made March to May 2002 due to drought conditions.

**DATUM.**--Elevation of land-surface datum is 676 ft above sea level, from topographic map. Measuring point: Top of small curving knob on rock, north side, at land-surface datum.

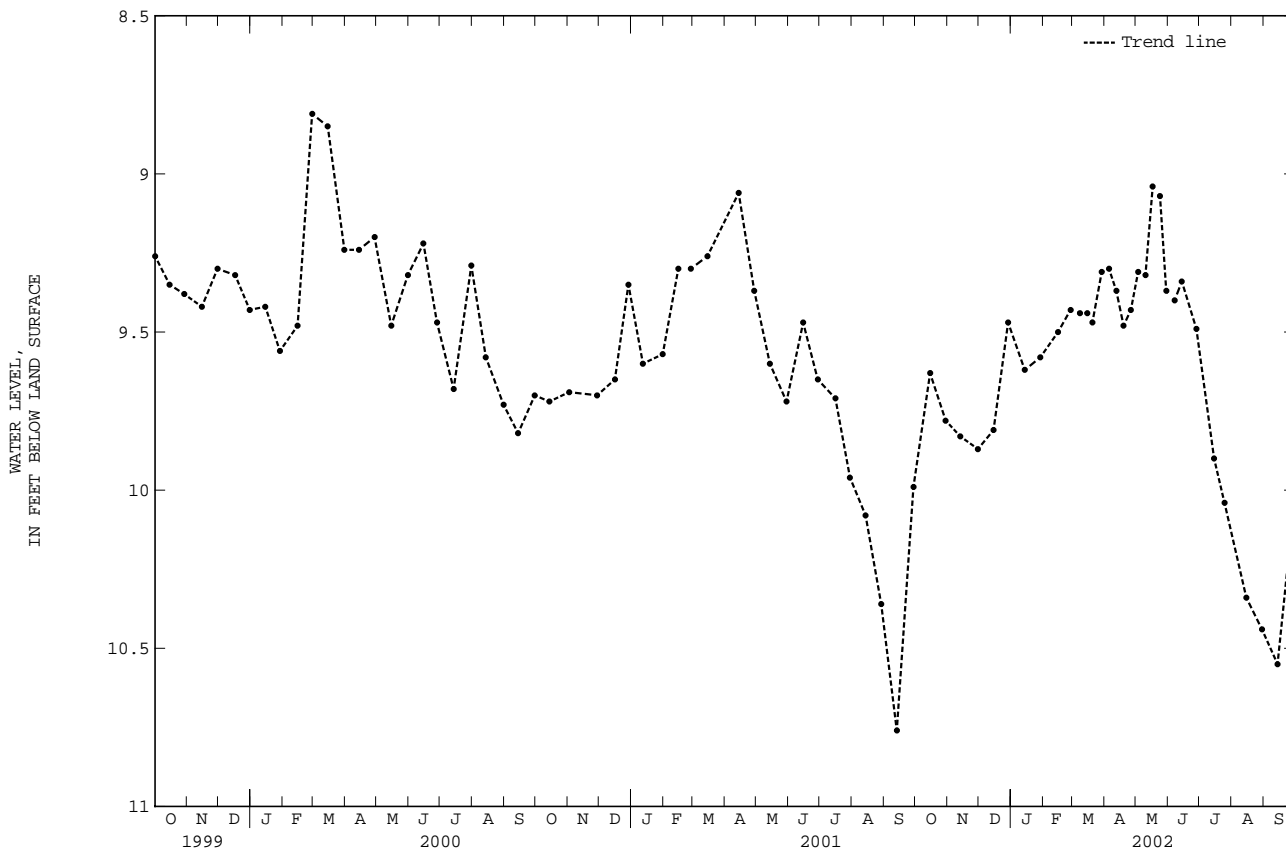
**PERIOD OF RECORD.**--August 1958 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 5.40 ft below land-surface datum, Nov. 23 and Dec. 8, 1984; lowest water level measured, dry (lower than 12 ft below land-surface datum) on Sept. 15, 29, and Oct. 6, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	9.63	JAN 14	9.62	MAR 20	9.47	MAY 03	9.31	JUN 14	9.34	SEP 14	10.55
30	9.78	29	9.58	29	9.31	10	9.32	28	9.49	29	10.07
NOV 13	9.83	FEB 15	9.50	APR 05	9.30	17	9.04	JUL 15	9.90		
30	9.87	27	9.43	12	9.37	24	9.07	25	10.04		
DEC 15	9.81	MAR 08	9.44	19	9.48	30	9.37	AUG 15	10.34		
29	9.47	15	9.44	26	9.43	JUN 07	9.40	30	10.44		
WATER YEAR 2002		HIGHEST	9.04	MAY 17, 2002	LOWEST	10.55	SEP 14, 2002				

## NOC 7



## LITCHFIELD COUNTY--Continued

415925073252001. Local Number, SY 15.

**LOCATION.**--Lat 41°59'25", long 73°25'20", Hydrologic Unit 01100005; 800 ft east of State Rt. 41 on Lower Cobble Rd., 8 ft south of pavement and 10 ft east of fence, Salisbury; Sharon quadrangle. Owner: Town of Salisbury.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water table well, diameter 2 in, depth 27.4 ft, PVC casing, screened 24 to 27.4 ft.

**INSTRUMENTATION.**--From December 1966 to July 2001, measurements made weekly with a chalked tape by paid observer;

since August 2001, measurements made monthly by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 695 ft above sea level, from topographic map. Measuring point: At land-surface datum.

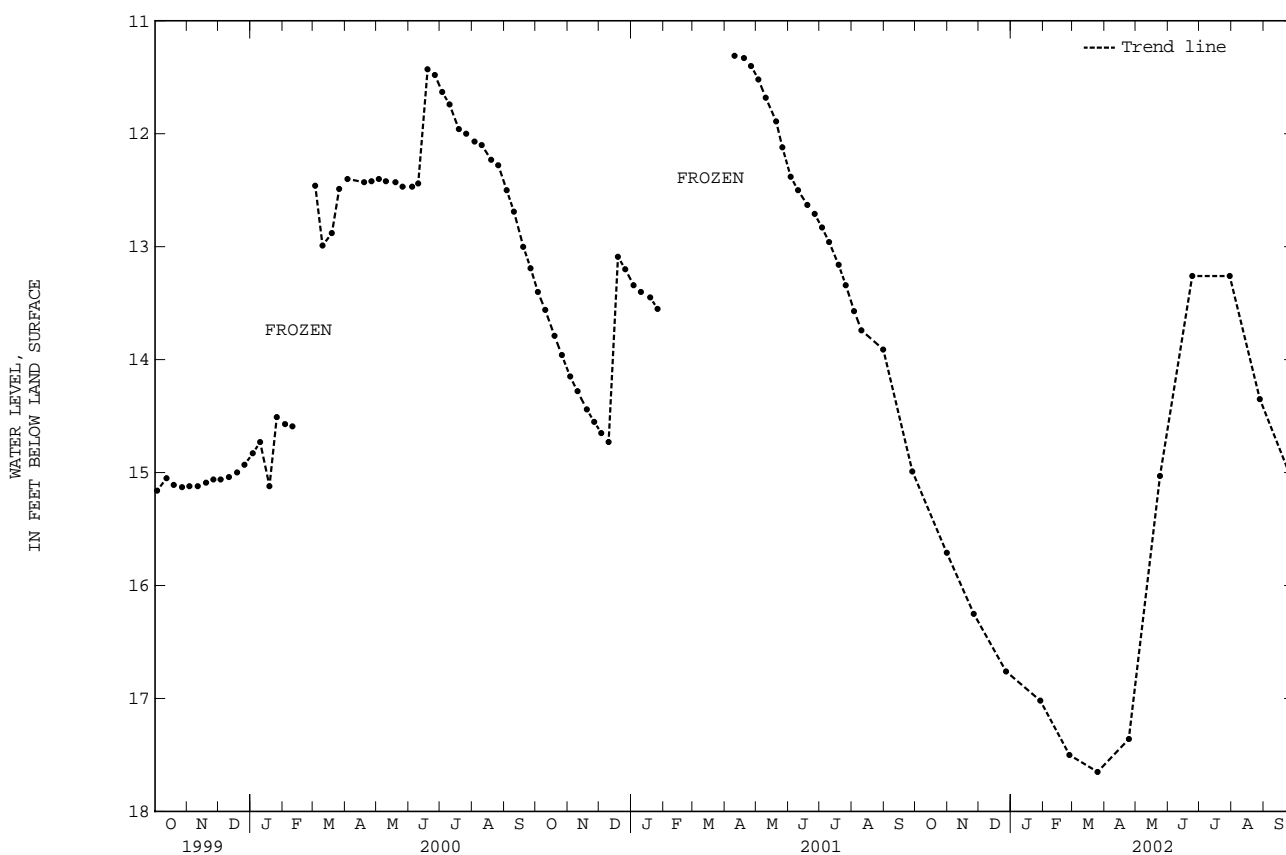
**PERIOD OF RECORD.**--December 1966 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 8.14 ft below land-surface datum, Mar. 28, 1993; lowest water level measured, 17.65 ft below land-surface datum, Mar. 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	15.71	DEC 27	16.76	FEB 26	17.50	APR 24	17.36	JUN 24	13.26	AUG 28	14.35
NOV 26	16.25	JAN 29	17.02	MAR 25	17.65	MAY 24	15.03	JUL 30	13.26	SEP 25	15.00
WATER YEAR 2002		HIGHEST	13.26	JUN 24, 2002	JUL 30, 2002	LOWEST	17.65	MAR 25, 2002			

SY 15



## GROUND-WATER LEVELS

## LITCHFIELD COUNTY--Continued

415559073253401. Local Number, SY 23.

**LOCATION.**--Lat 41°55'59", long 73°25'34", Hydrologic Unit 01100005; 450 ft south of junction of Race Track Rd. on State Rt. 112, 30 ft southwest of pavement and 10 ft east of woods, Salisbury; Sharon quadrangle. Owner: Connecticut Department of Transportation.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 51 ft, PVC casing, screened 48 to 51 ft.

**INSTRUMENTATION.**--From December 1987 to July 2001, measurements made weekly with a chalked tape by paid observer;

since August 2001, measurements made monthly by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 939 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 1.50 ft above land-surface datum.

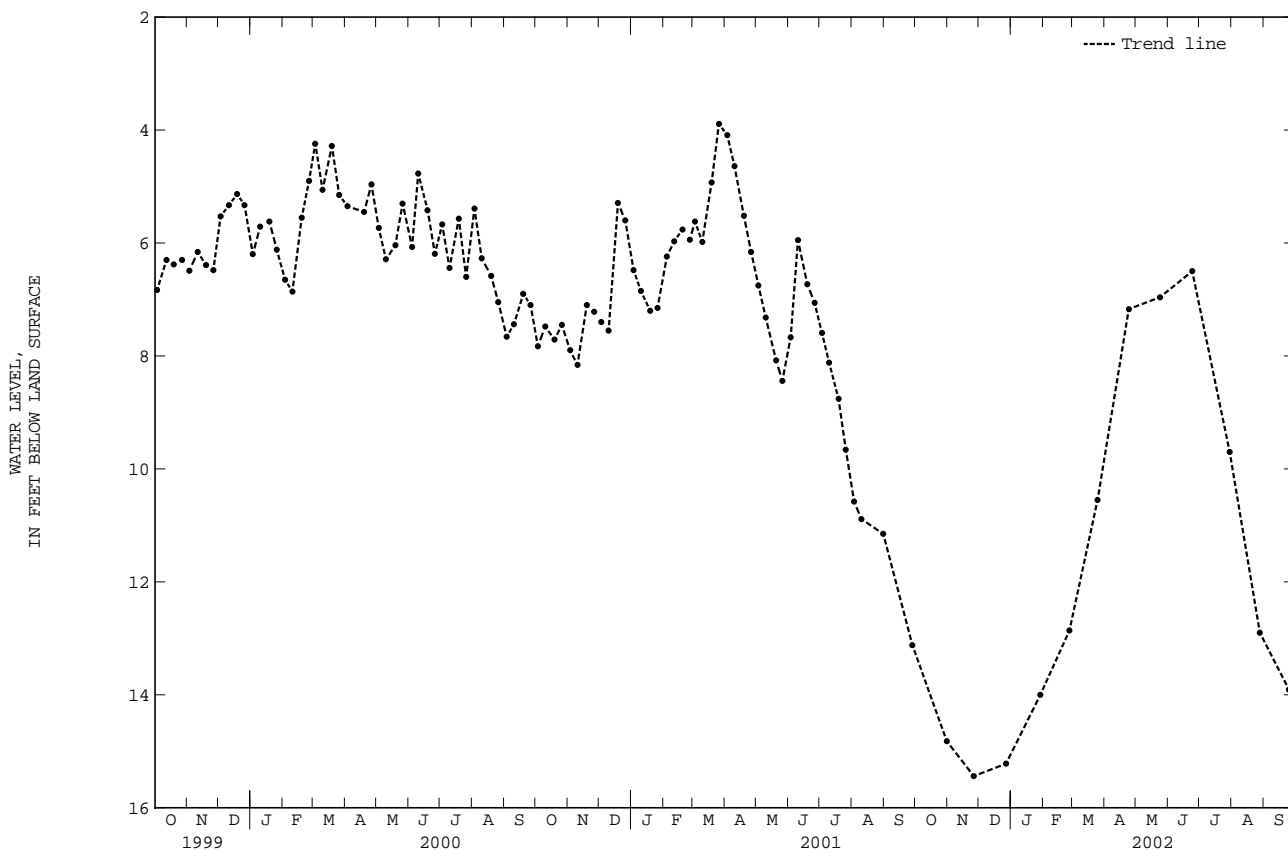
**PERIOD OF RECORD.**--December 1987 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 3.87 ft below land-surface datum, Apr. 3, 1993; lowest water level measured, 17.37 ft below land-surface datum, Sept. 25, 1993.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	14.82	DEC 27	15.22	FEB 26	12.86	APR 24	7.17	JUN 24	6.50	AUG 28	12.90
NOV 26	15.44	JAN 29	14.00	MAR 25	10.55	MAY 24	6.96	JUL 30	9.70	SEP 25	13.91
WATER YEAR 2002		HIGHEST	6.50	JUN 24, 2002	LOWEST	15.44	NOV 26, 2001				

## SY 23





## LITCHFIELD COUNTY--Continued

415956073241501. Local Number SY 24.

**LOCATION.**--Lat 41°59'56", long 73°24'15", Hydrologic Unit 01100005; near junction of State Rt. 44 and Taconic Rd., 115 ft north of Rt. 44 and 50 ft east of Taconic Rd., 5 ft north of fence, Salisbury; Sharon quadrangle. Owner: Town of Salisbury.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 28.7 ft, PVC casing, screened 25.7 to 28.7 ft.

**INSTRUMENTATION.**--From December 1986 to July 2001, measurements made weekly with a chalked tape by paid observer;

since August 2001, measurements made monthly by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 815 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 2.00 ft above land-surface datum.

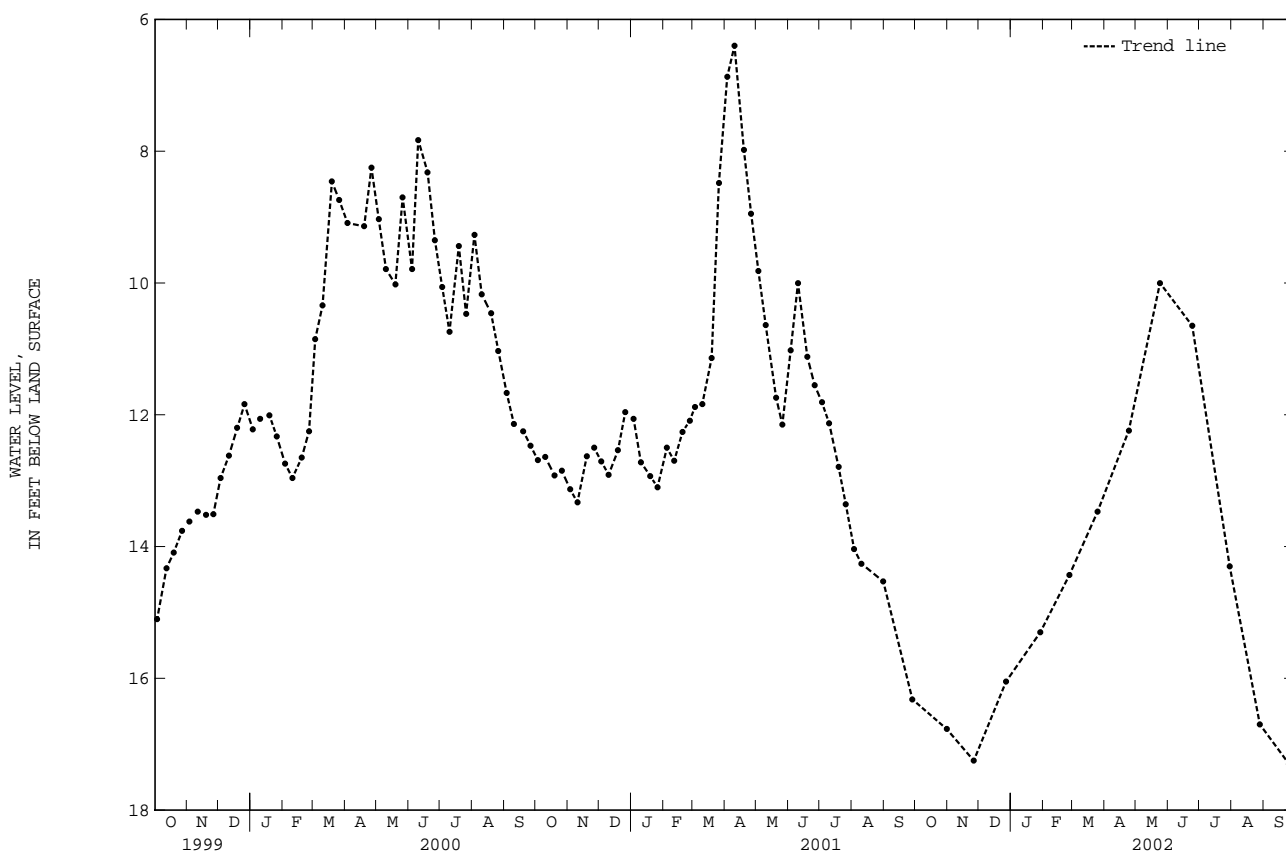
**PERIOD OF RECORD.**--December 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 5.36 ft below land-surface datum, Apr. 2, 1994; lowest water level measured, 19.39 ft below land-surface datum, Oct. 04, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	16.77	DEC 27	16.05	FEB 26	14.43	APR 24	12.24	JUN 24	10.65	AUG 28	16.70
NOV 26	17.25	JAN 29	15.30	MAR 25	13.47	MAY 24	10.00	JUL 30	14.30	SEP 25	17.30
WATER YEAR 2002		HIGHEST	10.00	MAY 24, 2002		LOWEST	17.30	SEP 25, 2002			

## SY 24



## GROUND-WATER LEVELS

## LITCHFIELD COUNTY--Continued

413202073122401. Local Number, WY 1.

**LOCATION.**--Lat 41°32'02", long 73°12'24", Hydrologic Unit 01100005, about 75 ft east of Main St. and 21 ft north of Irene Thulin House and about 500 ft south of Orenaug Rd., Woodbury; Woodbury quadrangle. Owner: Peter Miller.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, fieldstone-lined, diameter 30 in, depth 31 ft (formerly 34.2 ft).

**INSTRUMENTATION.**--Analog recorder installed Oct. 5, 1965; removed May 18, 1970; ADR water-level recorder with 60-minute punch installed May 7, 1986 and removed December 28, 1987. Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to September 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 270 ft above sea level, from topographic map. Measuring point: Top of plywood cover, 2.53 ft above land-surface datum.

**REMARKS.**--Water level data available October 1913 through December 1916, not included in period of record due to lack of documentation of measuring point height.

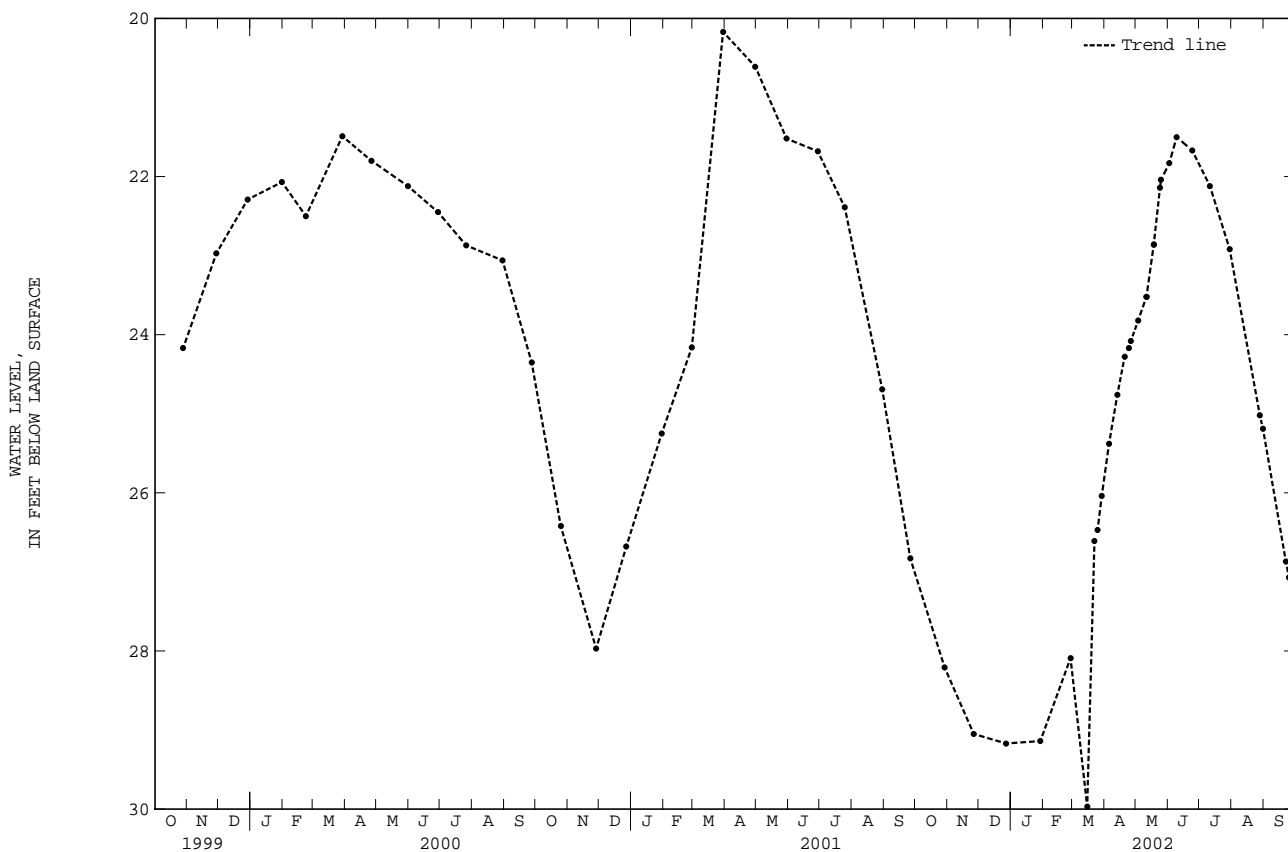
**PERIOD OF RECORD.**--October 1913 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 18.70 ft below land-surface datum, Apr. 26, 1983; lowest water level measured, 33.50 ft below land-surface datum, Oct. 10, 1914.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	28.21	MAR 22	26.61	APR 24	24.17	MAY 18	22.86	JUL 11	22.12	SEP 29	27.30
NOV 26	29.05	25	26.47	26	24.08	24	22.14	30	22.92		
DEC 27	29.17	29	26.04	MAY 03	23.82	25	22.04	AUG 28	25.02		
JAN 29	29.14	APR 05	25.38	11	23.52	JUN 02	21.83	31	25.19		
FEB 27	28.09	13	24.76	11	23.52	09	21.50	SEP 22	26.87		
MAR 15	29.97	20	24.28	18	22.86	24	21.67	25	27.07		
WATER YEAR 2002		HIGHEST	21.50	JUN 09, 2002	LOWEST	29.97	MAR 15, 2002				

## WY 1



## MIDDLESEX COUNTY

411832072325501. Local number, CL 223.

**LOCATION.**--Lat 41°18'32", long 72°32'55". Hydrologic Unit 01100004, 50 ft west of intersection of Cow Hill Rd. and Sassafrass Dr., 10 ft south of curb, at tree line, Clinton; Clinton quadrangle. Owner: Town of Clinton.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 64 ft, PVC casing, screened 59 to 64 ft.

**INSTRUMENTATION.**--From October 1991 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 205 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 1.08 ft above land-surface datum.

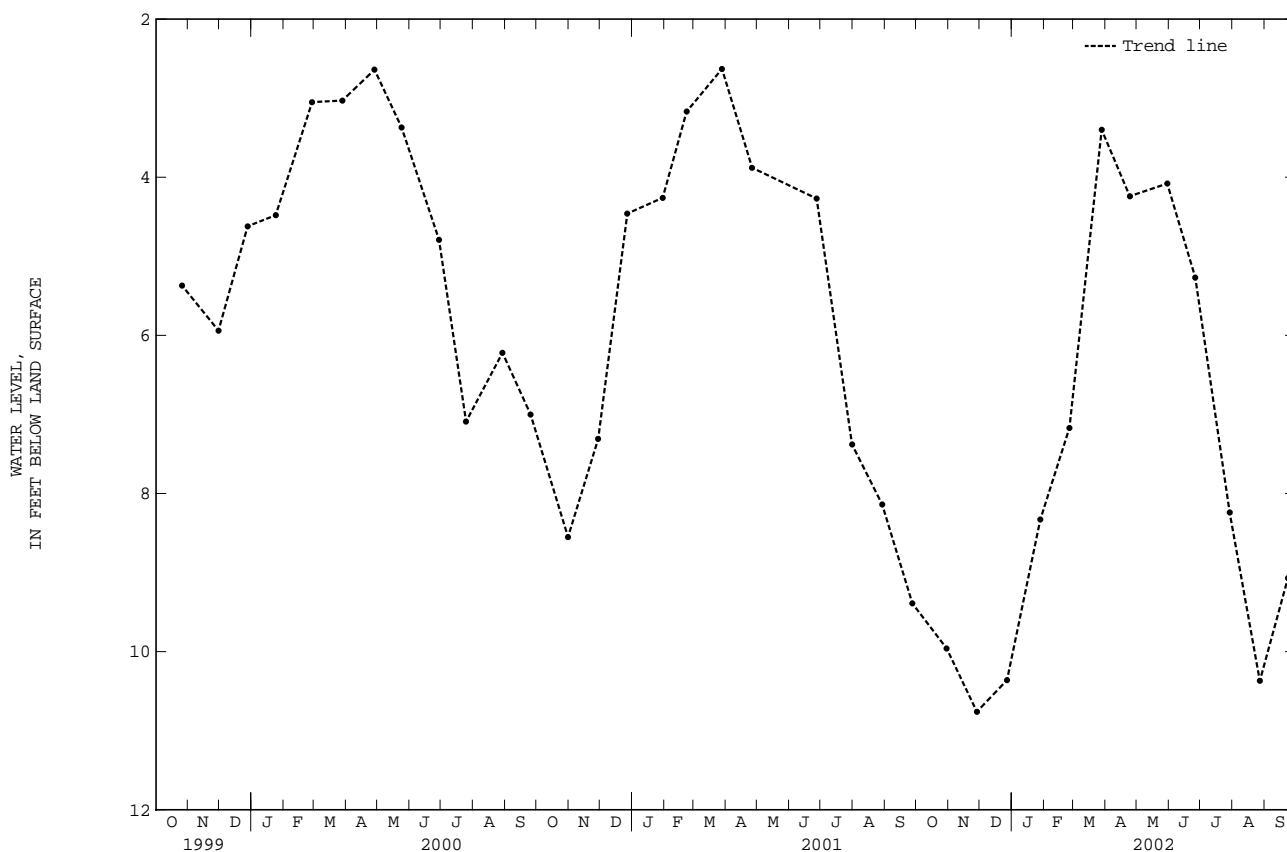
**PERIOD OF RECORD.**--October 1991 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 1.37 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 12.43 ft below land-surface datum, Oct. 30, 1997.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	9.96	DEC 27	10.36	FEB 25	7.17	APR 24	4.24	JUN 26	5.27	AUG 27	10.37
NOV 28	10.76	JAN 28	8.33	MAR 28	3.40	MAY 30	4.08	JUL 29	8.24	SEP 23	9.07
WATER YEAR 2002		HIGHEST	3.40	MAR 28, 2002	LOWEST		10.76	NOV 28, 2001			

## CL 223



## GROUND-WATER LEVELS

## MIDDLESEX COUNTY--Continued

411826072322401. Local number, CL 224.

**LOCATION.**--Lat 41°18'26", long 72°32'24", Hydrologic Unit 01100004, east end of Colonial Dr., well is 20 ft east of curb at storm drain, Clinton; Clinton quadrangle. Owner: Town of Clinton.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 25 ft, PVC casing, screened 20 to 25 ft.

**INSTRUMENTATION.**--From October 1991 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 145 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 0.57 ft above land-surface datum.

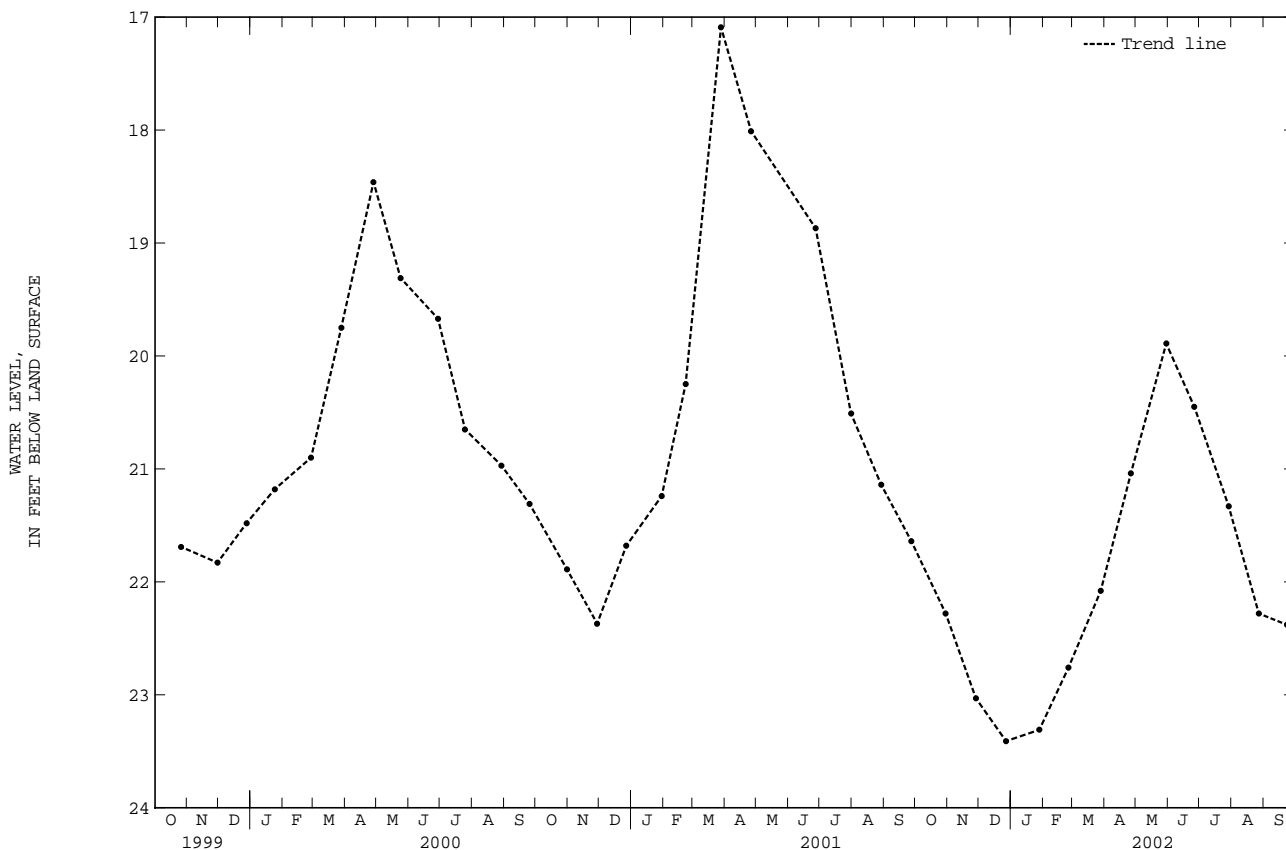
**PERIOD OF RECORD.**--October 1991 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 16.93 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 23.41 ft below land-surface datum, Dec. 27, 2001.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	22.28	DEC 27	23.41	FEB 25	22.76	APR 26	21.04	JUN 26	20.45	AUG 27	22.28
NOV 28	23.03	JAN 28	23.31	MAR 28	22.08	MAY 30	19.89	JUL 29	21.33	SEP 23	22.38
WATER YEAR 2002		HIGHEST	19.89	MAY 30, 2002	LOWEST	23.41	DEC 27, 2001				

## CL 224



## MIDDLESEX COUNTY--Continued

411735072315001. Local number, CL 225.

**LOCATION.**--Lat 41°17'35", long 72°31'50", Hydrologic Unit 01100004, about 200 ft south of the intersection of Cow Hill Rd. and Rt. 81, well is 200 ft east of Rt. 81 at edge of field behind the chain link fence, Clinton; Clinton quadrangle. Owner: Town of Clinton, Board of Education.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 30 ft, PVC casing, screened 25 to 30 ft.

**INSTRUMENTATION.**--From December 1991 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 40 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 1.88 ft above land-surface datum.

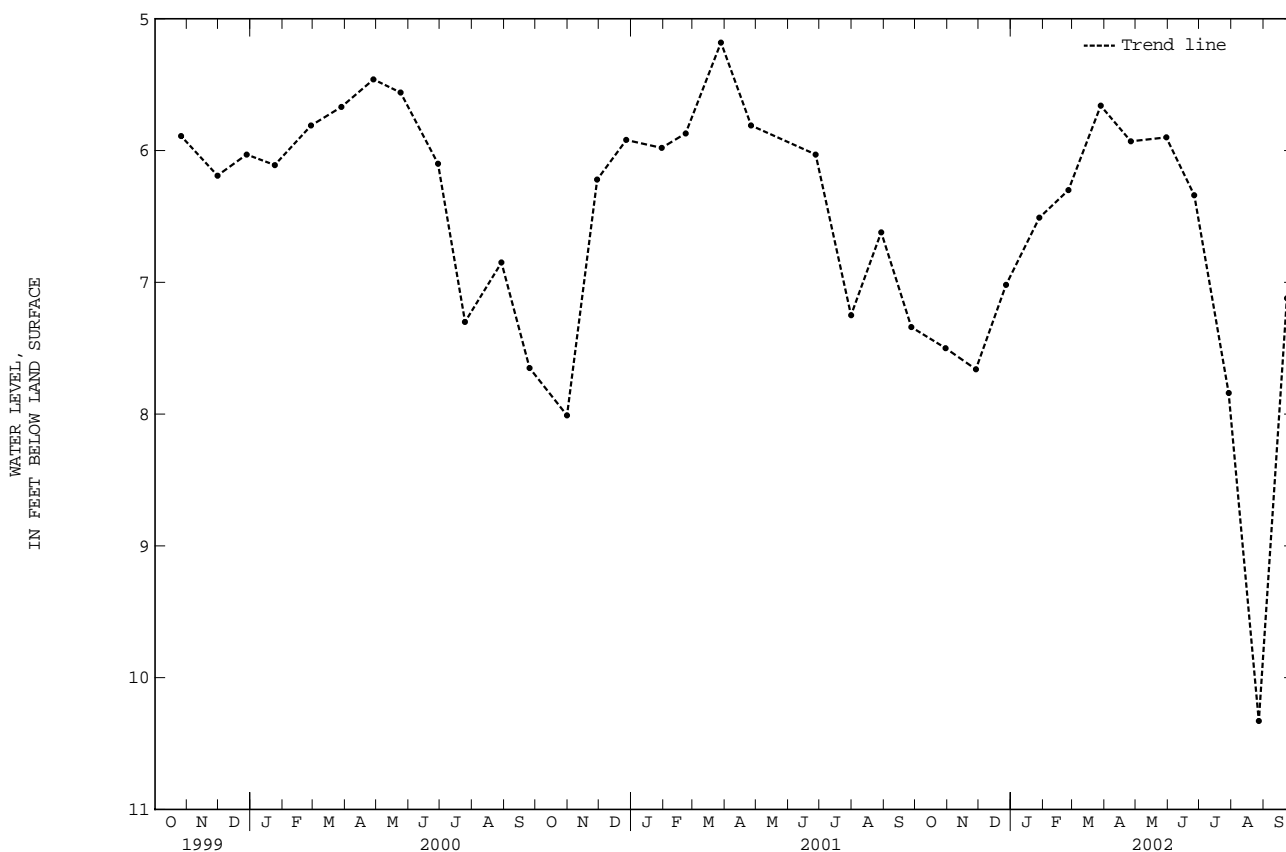
**PERIOD OF RECORD.**--December 1991 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 3.80 ft below land-surface datum, Aug. 31, 1998; lowest water level measured, 10.39 ft below land-surface datum, Sept. 13, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	7.50	DEC 27	7.02	FEB 25	6.30	APR 26	5.93	JUN 26	6.34	AUG 27	10.33
NOV 28	7.66	JAN 28	6.51	MAR 28	5.66	MAY 30	5.90	JUL 29	7.84	SEP 23	7.12
WATER YEAR 2002		HIGHEST	5.66	MAR 28, 2002	LOWEST	10.33	AUG 27, 2002				

## CL 225



## GROUND-WATER LEVELS

## MIDDLESEX COUNTY--Continued

412809072420701. Local Number, D 116.

**LOCATION.**--Lat 41°28'09", long 72°42'07", Hydrologic Unit 01080205, in schoolyard of Brewster School about 100 ft east of Tuttle St. and about 2,400 ft south of State Rt. 68, Durham; Durham quadrangle. Owner: Town of Durham, Board of Education, Brewster School.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 23.8 ft, PVC casing, screened 21.5 to 23 ft.

**INSTRUMENTATION.**--From January 1986 to July 2000, measurements made biweekly with a chalked tape by paid observer; since August 2000, measurements made monthly by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 241 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 1.27 ft above land-surface datum.

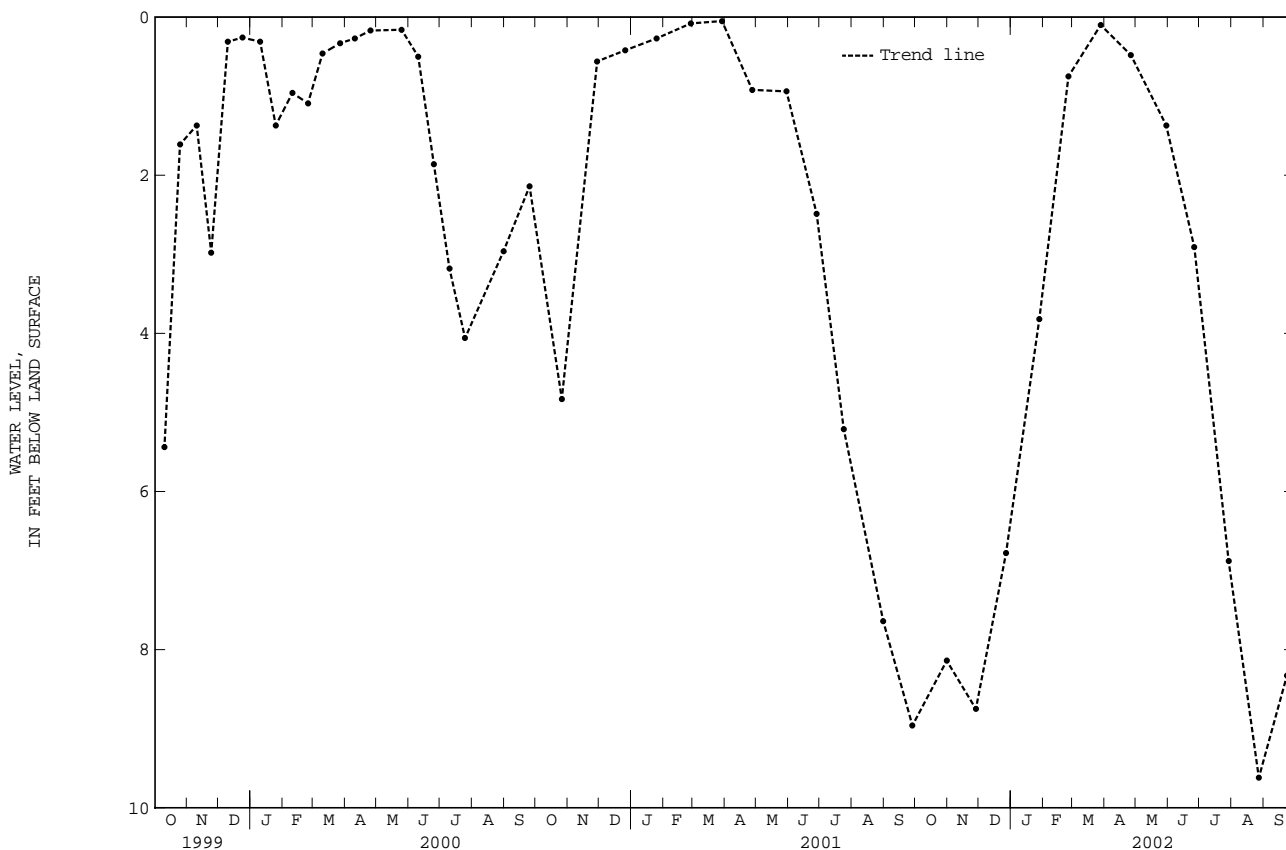
**PERIOD OF RECORD.**--January 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.02 ft above land-surface datum, June 10, 1989; lowest water level measured, 10.69 ft below land-surface datum, Sept. 10, 1999.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	8.14	DEC 27	6.78	FEB 25	.75	APR 26	.48	JUN 26	2.91	AUG 27	9.62
NOV 28	8.75	JAN 28	3.82	MAR 28	.10	MAY 30	1.37	JUL 29	6.88	SEP 23	8.33
WATER YEAR 2002		HIGHEST		.10	MAR 28, 2002		LOWEST		9.62	AUG 27, 2002	

## D 116



## MIDDLESEX COUNTY--Continued

412825072410501. Local Number, D 117.

**LOCATION.**--Lat 41°28'25", long 72°41'05", Hydrologic Unit 01080205, about 400 ft west of Maple Ave. and about 300 ft south of Allyn Brook, Durham; Durham quadrangle. Owner: Town of Durham, Fair Grounds Association.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 22.5 ft, PVC casing, screened 21 to 22.5 ft.

**INSTRUMENTATION.**--From January 1986 to July 2000, measurements made biweekly with a chalked tape by paid observer;

since August 2000, measurements made monthly by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 162 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 1.35 ft above land-surface datum.

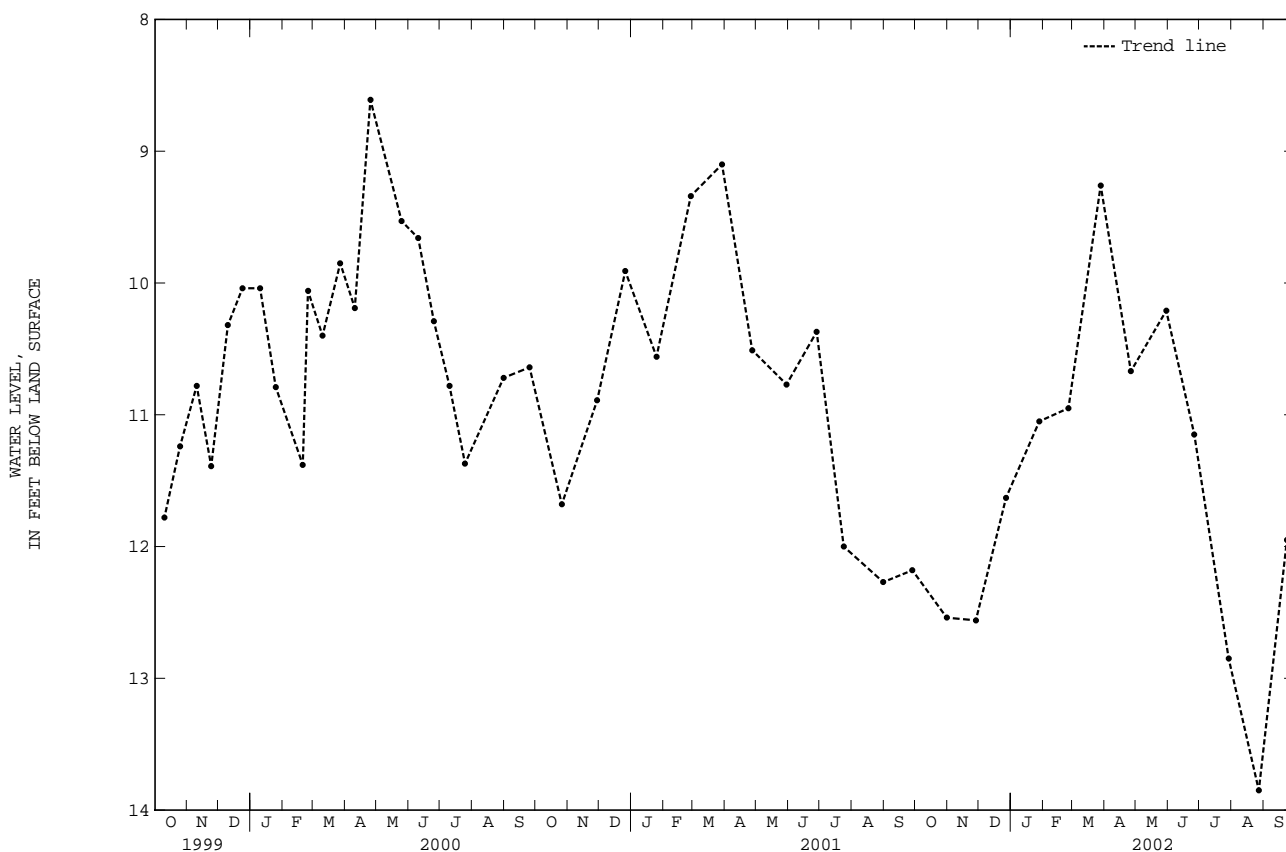
**PERIOD OF RECORD.**--January 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 4.34 ft below land-surface datum Dec. 9, 1996; lowest water level measured, 14.48 ft below land-surface datum, Aug. 26, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	12.54	DEC 27	11.63	FEB 25	10.95	APR 26	10.67	JUN 26	11.15	AUG 27	13.85
NOV 28	12.56	JAN 28	11.05	MAR 28	9.26	MAY 30	10.21	JUL 29	12.85	SEP 23	11.95
WATER YEAR 2002		HIGHEST	9.26	MAR 28, 2002		LOWEST	13.85	AUG 27, 2002			

## D 117



## GROUND-WATER LEVELS

## MIDDLESEX COUNTY--Continued

412824072411902. Local Number, D 119.

**LOCATION.**--Lat 41°28'24", long 72°41'19", Hydrologic Unit 01080205, about 1,600 ft west of Maple Ave. and about 400 ft south of Allyn Brook at northeast corner of parking area at end of gravel road, Durham; Durham quadrangle. Owner: Town of Durham.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 23 ft, PVC casing, screened 20 to 23 ft.

**INSTRUMENTATION.**--From January 1986 to July 2000, measurements made biweekly with a chalked tape by paid observer;

since August 2000, measurements made monthly by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 157 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 0.42 ft above land-surface datum.

**REMARKS.**--Shallow, southern well of pair.

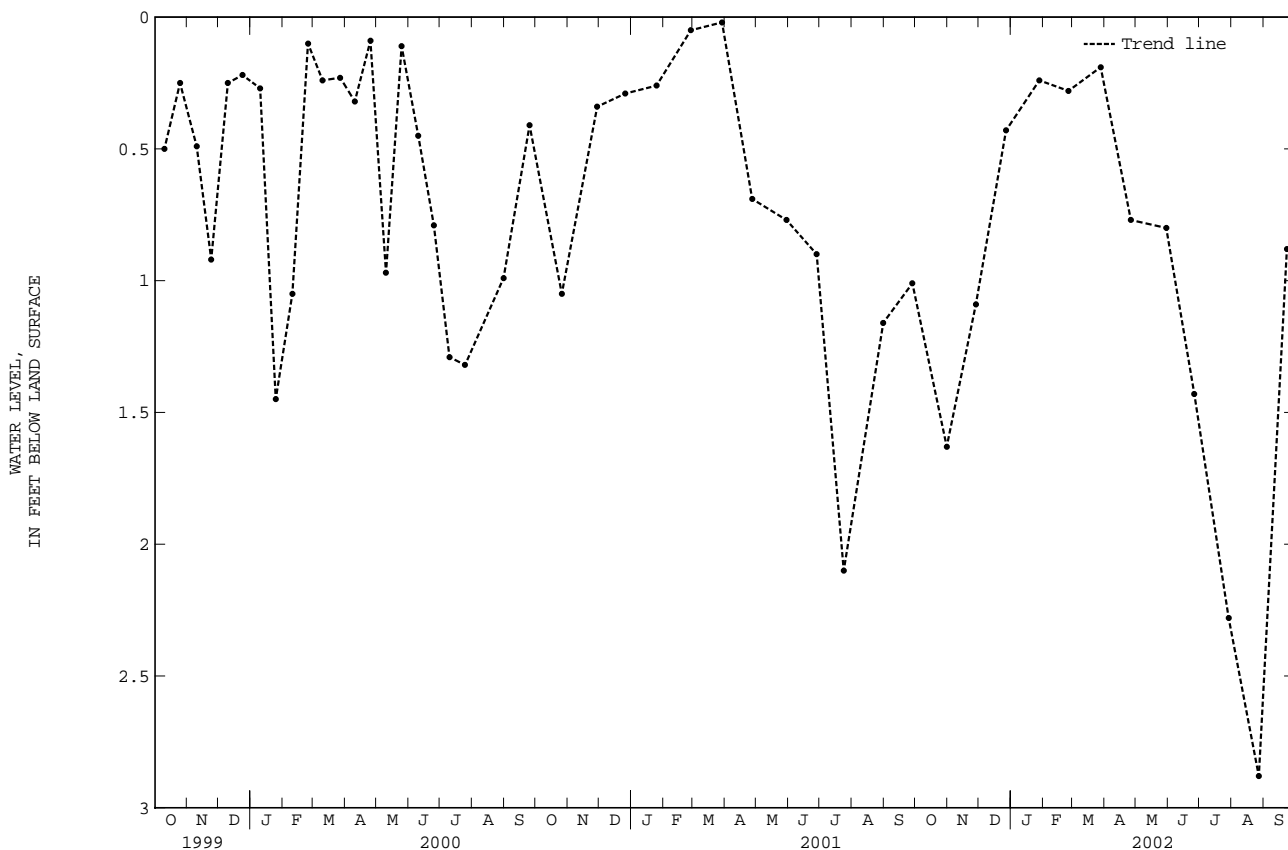
**PERIOD OF RECORD.**--January 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.12 ft above land-surface datum, Mar. 12, 1994; lowest level measured, 4.79 ft below land-surface datum, June 10, 1999.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	1.63	DEC 27	.43	FEB 25	.28	APR 26	.77	JUN 26	1.43	AUG 27	2.88
NOV 28	1.09	JAN 28	.24	MAR 28	.19	MAY 30	.80	JUL 29	2.28	SEP 23	.88
WATER YEAR 2002		HIGHEST		.19	MAR 28, 2002		LOWEST		2.88	AUG 27, 2002	

## D 119





## MIDDLESEX COUNTY--Continued

412824072411901. Local Number, D 120.

**LOCATION.**--Lat 41°28'24", long 72°41'19", Hydrologic Unit 01080205, about 1,600 ft west of Maple Ave. and about 400 ft south of Allyn Brook at northeast corner of parking area at end of gravel road, Durham; Durham quadrangle. Owner: Town of Durham.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 50 ft, PVC casing, screened 47 to 50 ft.

**INSTRUMENTATION.**--From January 1986 to July 2000, measurements made biweekly with a chalked tape by paid observer;

since August 2000, measurements made monthly by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 157 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 0.42 ft above land-surface datum.

**REMARKS.**--Deep, northern well of pair.

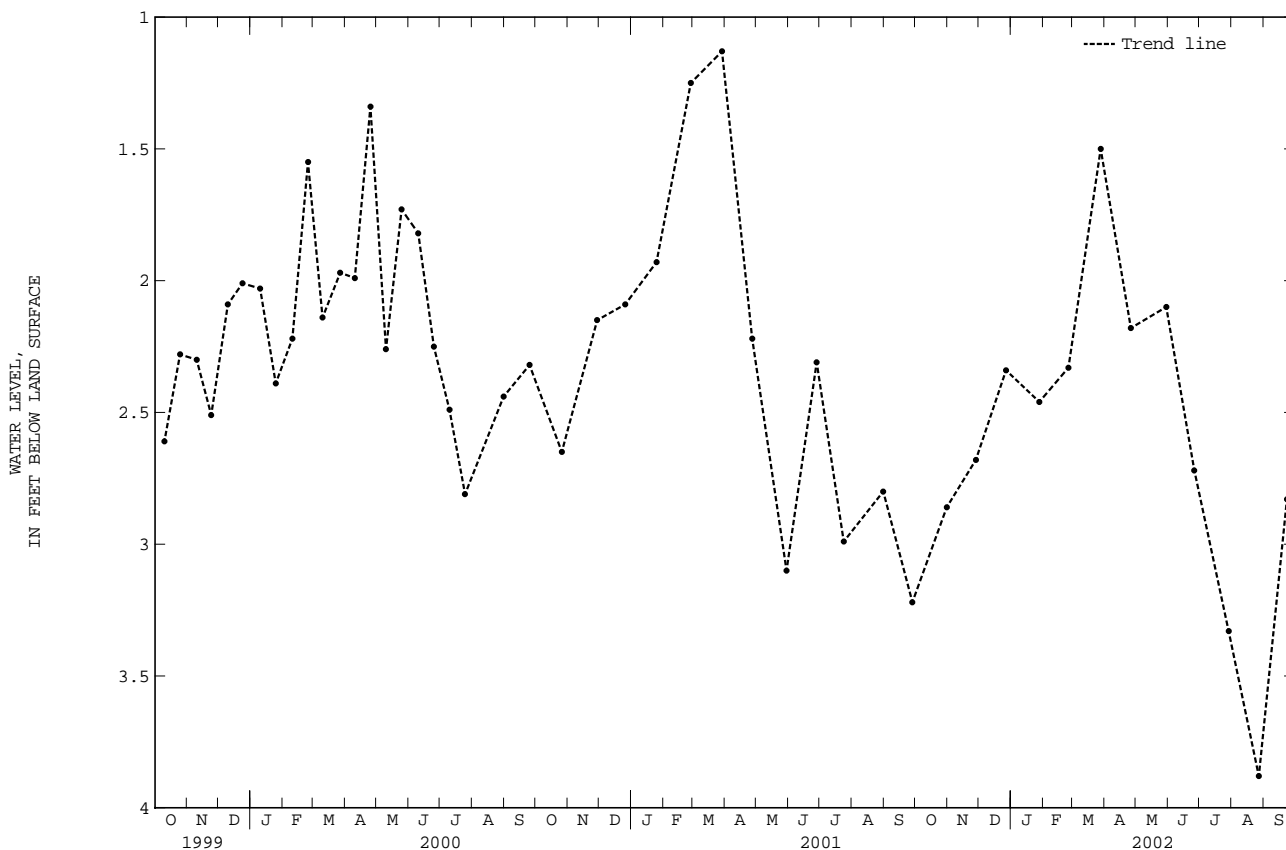
**PERIOD OF RECORD.**--January 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.06 ft above land-surface datum, Mar. 10, 1998; lowest water level measured, 4.37 ft below land-surface datum, Sept. 10, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	2.86	DEC 27	2.34	FEB 25	2.33	APR 26	2.18	JUN 26	2.72	AUG 27	3.88
NOV 28	2.68	JAN 28	2.46	MAR 28	1.50	MAY 30	2.10	JUL 29	3.33	SEP 23	2.83
WATER YEAR 2002		HIGHEST	1.50	MAR 28, 2002	LOWEST	3.88	AUG 27, 2002				

## D 120



## GROUND-WATER LEVELS

## MIDDLESEX COUNTY--Continued

413033072432001. Local Number, MF 1.

**LOCATION.**--Lat 41°30'33", long 72°43'20", Hydrologic Unit 01080205, about 100 ft east of West St. and about 600 ft south of State Rt. 147, Middlefield; Middletown quadrangle. Owner: The Leisure Group Inc. (Lyman Products for Shooters).

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 24 in, depth 22 ft, stone-lined.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 250 ft above sea level, from topographic map. Measuring point: Top of flagstone curb at orange paint mark, north side at land-surface datum.

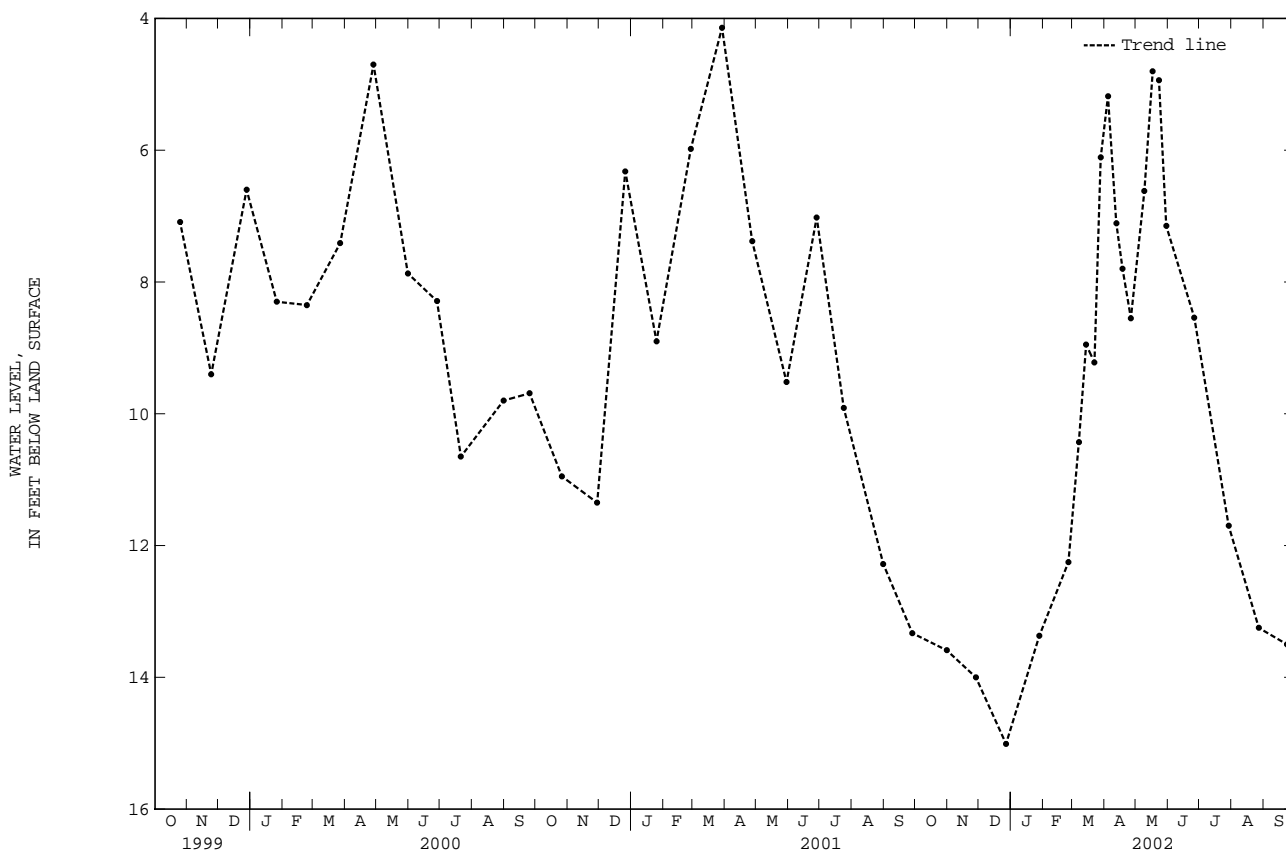
**PERIOD OF RECORD.**--July 1946 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 1.67 ft below land-surface datum, June 24, 1992; lowest water level measured, 16.92 ft below land-surface datum, Nov. 24, 1964.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	13.59	FEB 25	12.25	MAR 28	6.11	APR 26	8.55	MAY 30	7.15	SEP 23	13.50
NOV 28	14.00	MAR 07	10.43	APR 04	5.18	MAY 09	6.62	JUN 26	8.54		
DEC 27	15.01	14	8.95	12	7.11	17	4.80	JUL 29	11.70		
JAN 28	13.37	22	9.22	18	7.80	23	4.94	AUG 27	13.25		
WATER YEAR 2002		HIGHEST	4.80	MAY 17, 2002	LOWEST	15.01	DEC 27, 2001				

## MF 1



## MIDDLESEX COUNTY--Continued

413254072335501. Local Number, MT 261.

**LOCATION.**--Lat 41°32'54", long 72°33'55", Hydrologic Unit 01080205, about 200 ft east of River Rd. and 200 ft northwest of Building 450, Middletown; Middle Haddam quadrangle. Owner: United Technologies Corp., Hartford, Conn.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 24 in, depth 27.6 ft, fieldstone-lined. As of October 24, 1995, well depth decreased to 26.2 ft, as a result of land-surface elevation change.

**INSTRUMENTATION.**--Prior to December 1990 measurements made monthly; from December 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to May 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 150 ft above sea level, from topographic map. Measuring point: Top of steel well cover between two hacksaw marks, at land-surface datum.

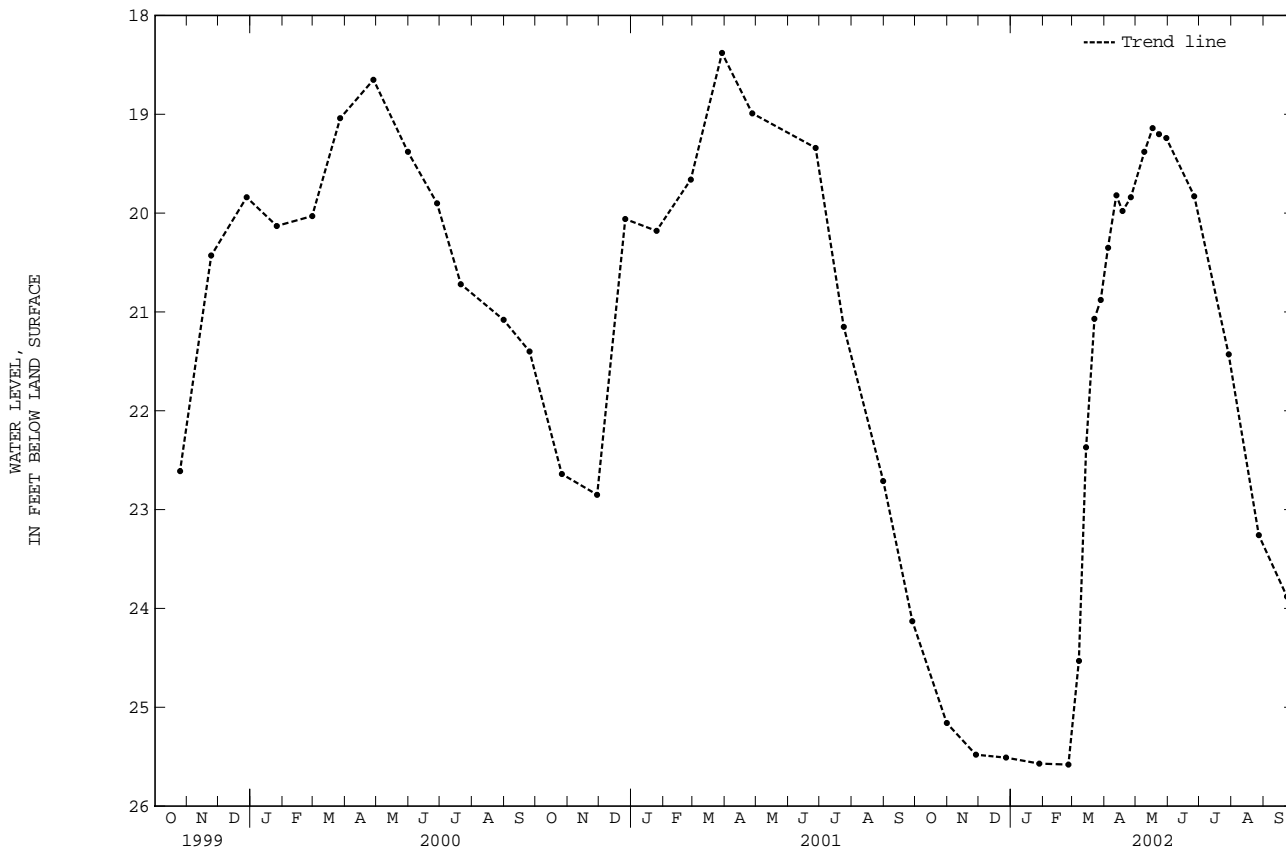
**PERIOD OF RECORD.**--April 1956 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 17.16 ft below land-surface datum, Apr. 26, 1983; lowest water level measured, dry (lower than 26.2 ft below land-surface datum) on Nov. 1 and Dec. 2, 1957; Nov. 25, 1964; Oct. 31, 1986; and Oct. 17, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	25.16	FEB 25	25.58	MAR 28	20.88	APR 26	19.84	MAY 30	19.24	SEP 23	23.88
NOV 28	25.48	MAR 07	24.53	APR 04	20.35	MAY 09	19.38	JUN 26	19.83		
DEC 27	25.51	14	22.37	12	19.82	17	19.14	JUL 29	21.43		
JAN 28	25.57	22	21.07	18	19.98	23	19.20	AUG 27	23.26		
WATER YEAR 2002		HIGHEST	19.14	MAY 17, 2002		LOWEST	25.58	FEB 25, 2002			

## MT 261



## GROUND-WATER LEVELS

## NEW HAVEN COUNTY

412423072542801. Local Number, HM 445.

**LOCATION.**--Lat 41°24'23", long 72°54'28", Hydrologic Unit 01100004, at Lockwood Farm, 800 ft south of Kenwood Ave. and 1,500 ft west of Shepard Ave., in orchard, Hamden; Mount Carmel quadrangle. Owner: Connecticut Agricultural Experiment Station.

**AQUIFER.**--Sedimentary bedrock (arkose).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in (0-12 ft), depth 36.35 ft, PVC casing, open hole 12 to 36.35 ft (diameter of open section --3 in).

**INSTRUMENTATION.**--Prior to May 1996 measurements made biweekly with a chalked tape by paid observer. Beginning June 26, 1997, measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 180 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 1.80 ft above land-surface datum.

**REMARKS.**--Water level records missing from May 1996 through May 1997.

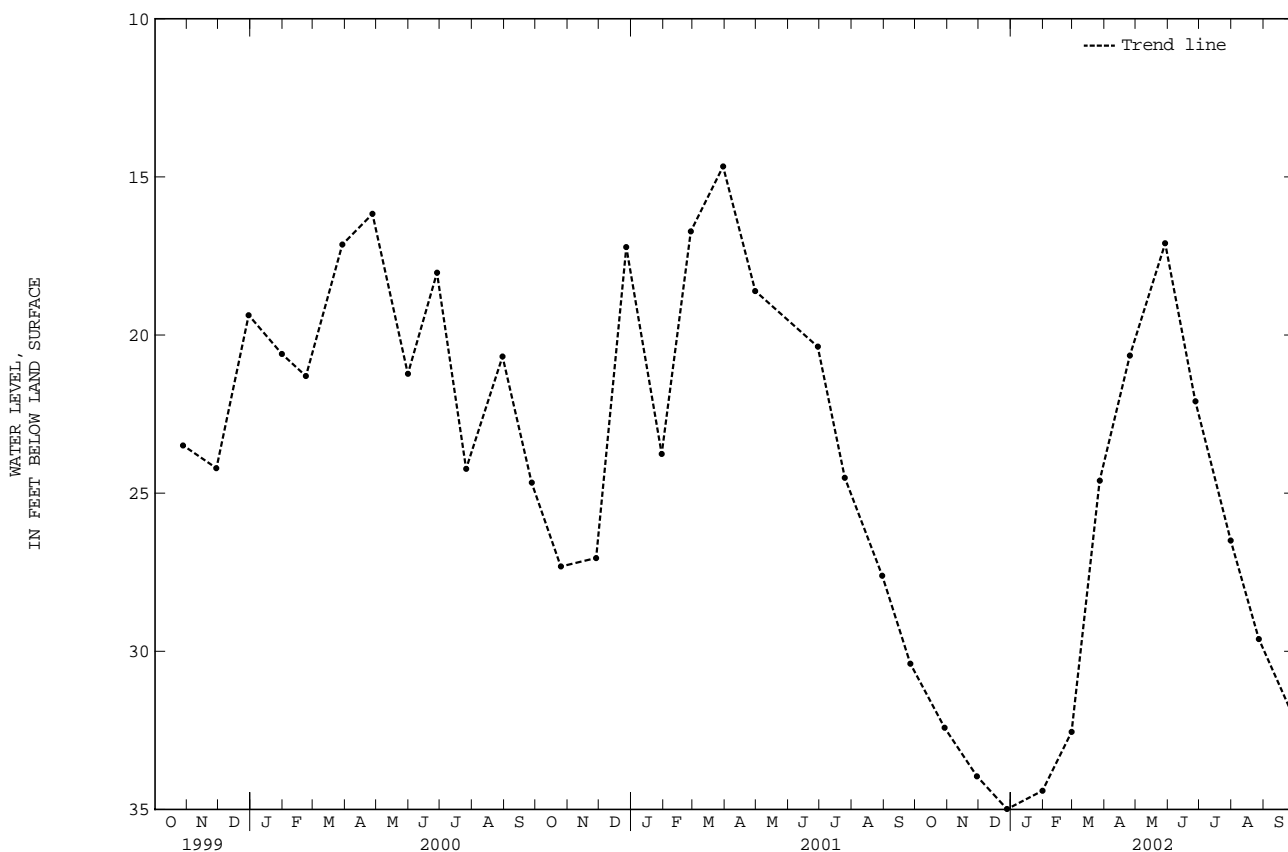
**PERIOD OF RECORD.**--July 1988 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 14.05 ft below land-surface datum, Feb. 26, 1998; lowest water level measured, 34.99 ft below land-surface datum, Dec. 28, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	32.42	DEC 28	34.99	FEB 28	32.55	APR 25	20.65	JUN 27	22.10	AUG 27	29.61
NOV 29	33.95	JAN 31	34.41	MAR 27	24.60	MAY 29	17.10	JUL 31	26.50	SEP 27	31.90
WATER YEAR 2002		HIGHEST	17.10	MAY 29, 2002		LOWEST	34.99	DEC 28, 2001			

## HM 445



## NEW HAVEN COUNTY--Continued

412546072541702. Local number, HM 446.

**LOCATION.**--Lat 41°25'46", long 72°54'17", Hydrologic Unit 01100004, at Sleeping Giant State Park, off Tuttle Ave., 50 ft south of road and 30 ft west of Mill River, Hamden; Mount Carmel quadrangle. Owner: Connecticut Department of Environmental Protection.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 23 ft, PVC casing, screened from 18 to 23 ft.

**INSTRUMENTATION.**--Prior to May 1996 measurements made biweekly with a chalked tape by paid observer. Beginning June 26, 1997, measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 95 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 1.60 ft above land-surface datum.

**REMARKS.**--Northern, shallow well of pair. Water level records missing from May 1996 through May 1997.

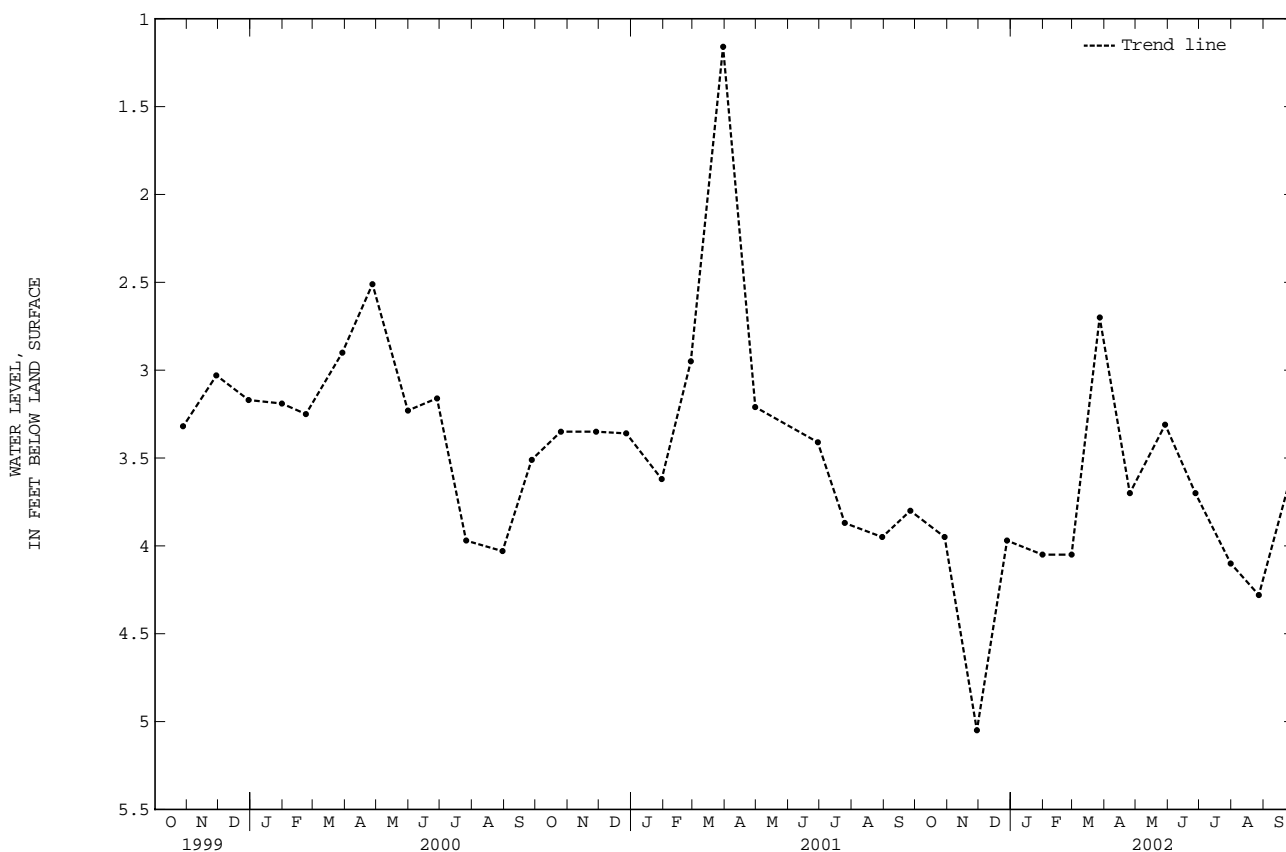
**PERIOD OF RECORD.**--April 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 1.11 ft below land-surface datum, Jan. 29, 1994; lowest water level measured, 5.05 ft below land-surface datum, Nov. 29, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	3.95	DEC 28	3.97	FEB 28	4.05	APR 25	3.70	JUN 27	3.70	AUG 27	4.28
NOV 29	5.05	JAN 31	4.05	MAR 27	2.70	MAY 29	3.31	JUL 31	4.10	SEP 27	3.60
WATER YEAR 2002		HIGHEST	2.70	MAR 27, 2002	LOWEST	5.05	NOV 29, 2001				

## HM 446



## GROUND-WATER LEVELS

## NEW HAVEN COUNTY--Continued

412546072541701. Local number, HM 447.

**LOCATION.**--Lat 41°25'46", long 72°54'17", Hydrologic Unit 01100004, at Sleeping Giant State Park, off Tuttle Ave., 50 ft south of road and 30 ft west of Mill River, Hamden; Mount Carmel quadrangle. Owner: Connecticut Department of Environmental Protection.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 58 ft, PVC casing, screened from 53 to 58 ft.

**INSTRUMENTATION.**--Prior to May 1996 measurements made biweekly with a chalked tape by paid observer. Beginning June 26, 1997, measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 95 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 1.60 ft above land-surface datum.

**REMARKS.**--Southern, deeper well of pair. Water level records missing from May 1996 through May 1997.

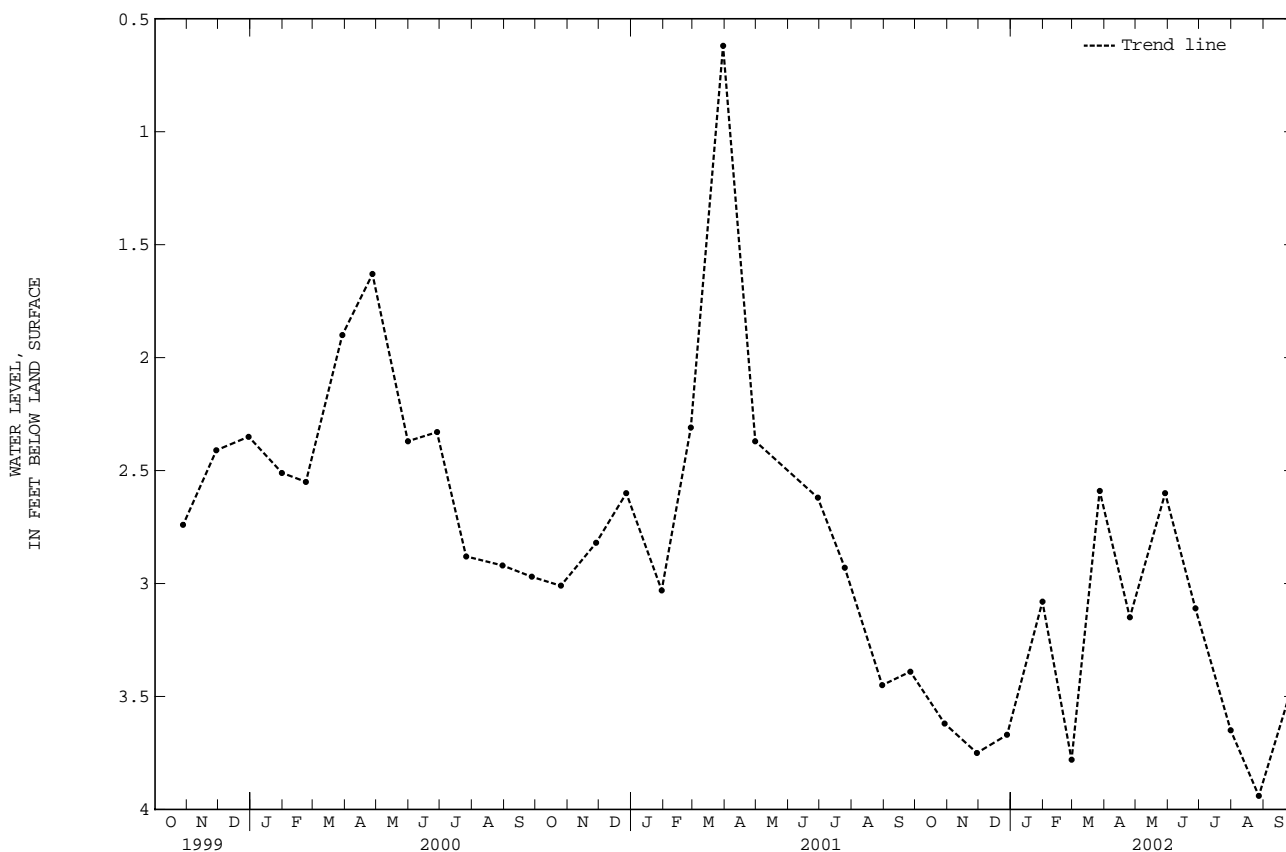
**PERIOD OF RECORD.**--January 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.62 ft below land-surface datum, Mar. 30, 2001; lowest water level measured, 4.16 ft below land-surface datum, Sept. 14, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	3.62	DEC 28	3.67	FEB 28	3.78	APR 25	3.15	JUN 27	3.11	AUG 27	3.94
NOV 29	3.75	JAN 31	3.08	MAR 27	2.59	MAY 29	2.60	JUL 31	3.65	SEP 27	3.47
WATER YEAR 2002		HIGHEST	2.59	MAR 27, 2002	LOWEST	3.94	AUG 27, 2002				

## HM 447



## NEW HAVEN COUNTY--Continued

412541072542001. Local number, HM 448.

**LOCATION.**--Lat 41°25'41", long 72°54'20", Hydrologic Unit 01100004, at Sleeping Giant State Park, 300 ft east of Rt. 10, 200 ft south of Tuttle Ave., northeast corner of field, near woods, Hamden; Mount Carmel quadrangle. Owner: Connecticut Department of Environmental Protection.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 53 ft, PVC casing, screened from 48 to 53 ft.

**INSTRUMENTATION.**--Prior to May 1996 measurements made biweekly with a chalked tape by paid observer. Beginning June 26, 1997, measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 115 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 2.20 ft above land-surface datum.

**REMARKS.**--Water level records missing from May 1996 through May 1997.

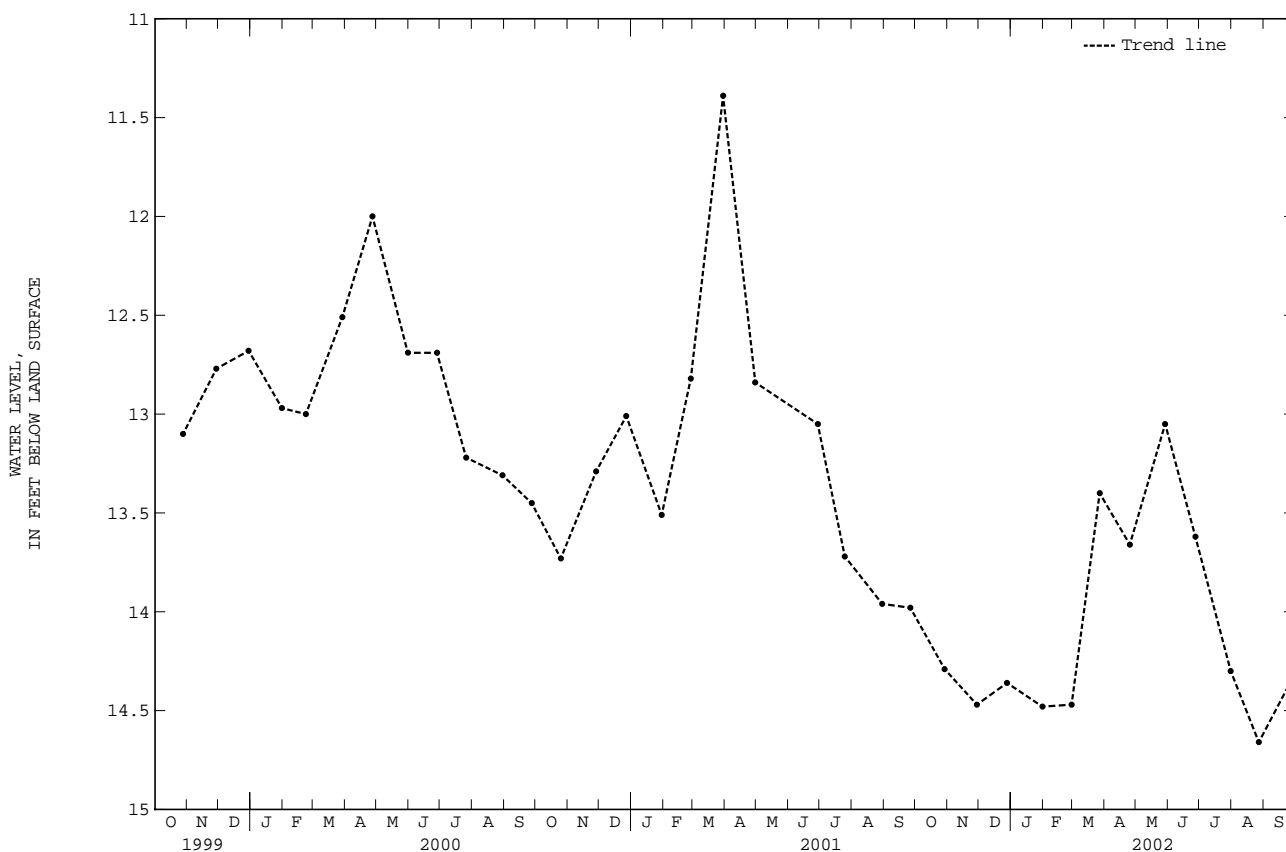
**PERIOD OF RECORD.**--January 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 9.74 ft below land-surface datum, Jan. 29, 1996; lowest water level measured, 14.99 ft below land-surface datum, Sept. 14, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	14.29	DEC 28	14.36	FEB 28	14.47	APR 25	13.66	JUN 27	13.62	AUG 27	14.66
NOV 29	14.47	JAN 31	14.48	MAR 27	13.40	MAY 29	13.05	JUL 31	14.30	SEP 27	14.35
WATER YEAR 2002		HIGHEST	13.05	MAY 29, 2002	LOWEST	14.66	AUG 27, 2002				

## HM 448



## GROUND-WATER LEVELS

## NEW HAVEN COUNTY--Continued

412417072541901. Local Number, HM 449.

**LOCATION.**--Lat 41°24'17", long 72°54'19", Hydrologic Unit 01100004, at Lockwood Farm, 600 ft south of Kenwood Ave. and 600 ft west of Shepard Ave., on top of hill in orchard, Hamden; Mount Carmel quadrangle. Owner: Connecticut Agricultural Experiment Station.

**AQUIFER.**--Sedimentary bedrock (arkose).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 33.50 ft, PVC casing, screened from 23.50 to 33.50 ft.

**INSTRUMENTATION.**--Prior to May 1996 measurements made biweekly with a chalked tape by paid observer. Beginning June 26, 1997, measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 235 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 2.20 ft above land-surface datum.

**REMARKS.**--Northern well of pair. Water level records missing from May 1996 through May 1997.

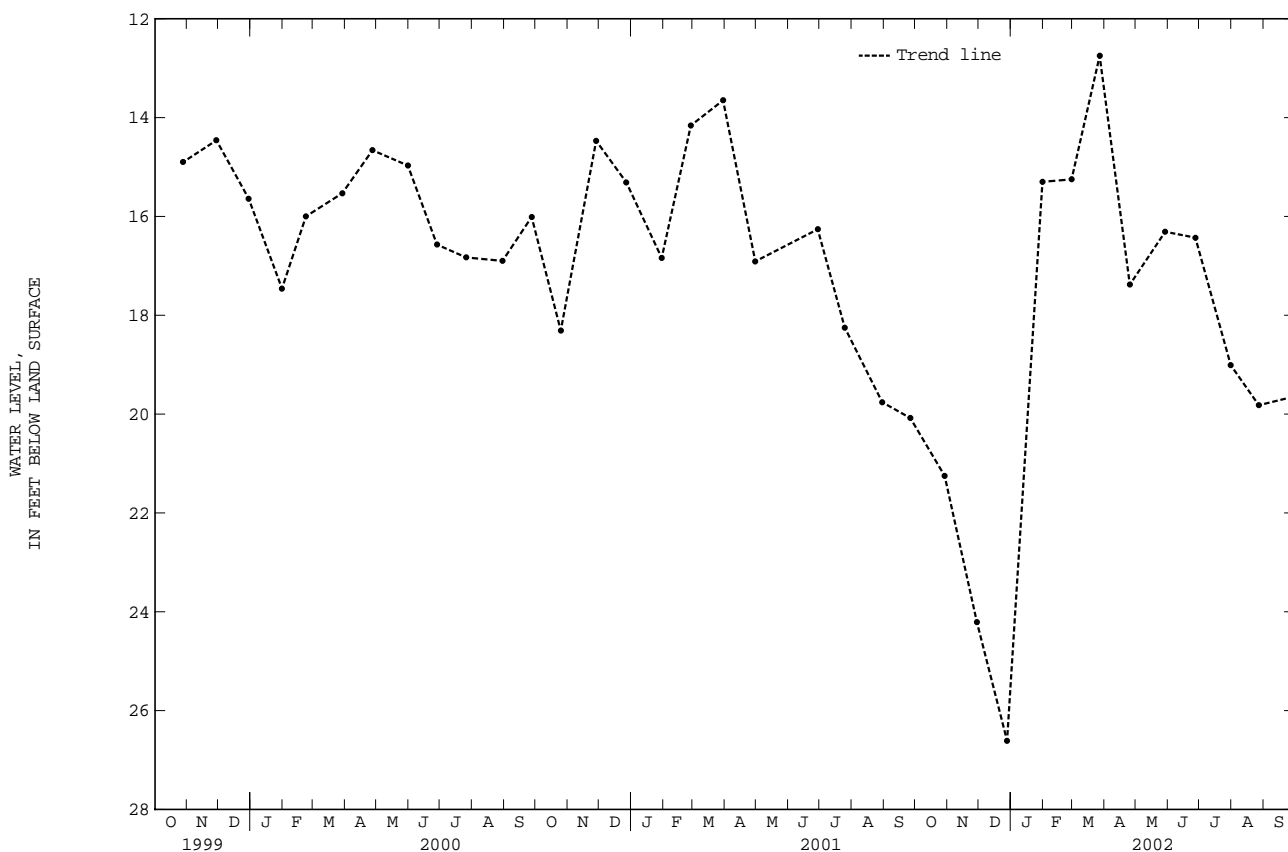
**PERIOD OF RECORD.**--January 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 11.02 ft below land-surface datum, Jan. 29, 1996; lowest water level measured, 26.61 ft below land-surface datum, Dec. 28, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	21.25	DEC 28	26.61	FEB 28	15.25	APR 25	17.38	JUN 27	16.43	AUG 27	19.82
NOV 29	24.21	JAN 31	15.30	MAR 27	12.75	MAY 29	16.31	JUL 31	19.01	SEP 27	19.66
WATER YEAR 2002		HIGHEST	12.75	MAR 27, 2002		LOWEST	26.61	DEC 28, 2001			

## HM 449





## NEW HAVEN COUNTY--Continued

412417072541902. Local Number, HM 450.

**LOCATION.**--Lat 41°24'17", long 72°54'19", Hydrologic Unit 01100004, at Lockwood Farm, 600 ft south of Kenwood Ave. and 600 ft west of Shepard Ave., on top of hill in orchard, Hamden; Mount Carmel quadrangle. Owner: Connecticut Agricultural Experiment Station.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 14 ft, PVC casing, screened from 9 to 14 ft.

**INSTRUMENTATION.**--Prior to May 1996 measurements made biweekly with a chalked tape by paid observer. Beginning June 26, 1997, measurements made monthly with an electric tape by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 235 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 1.05 ft above land-surface datum.

**REMARKS.**--Southern well of pair. Water level records missing from May 1996 through May 1997.

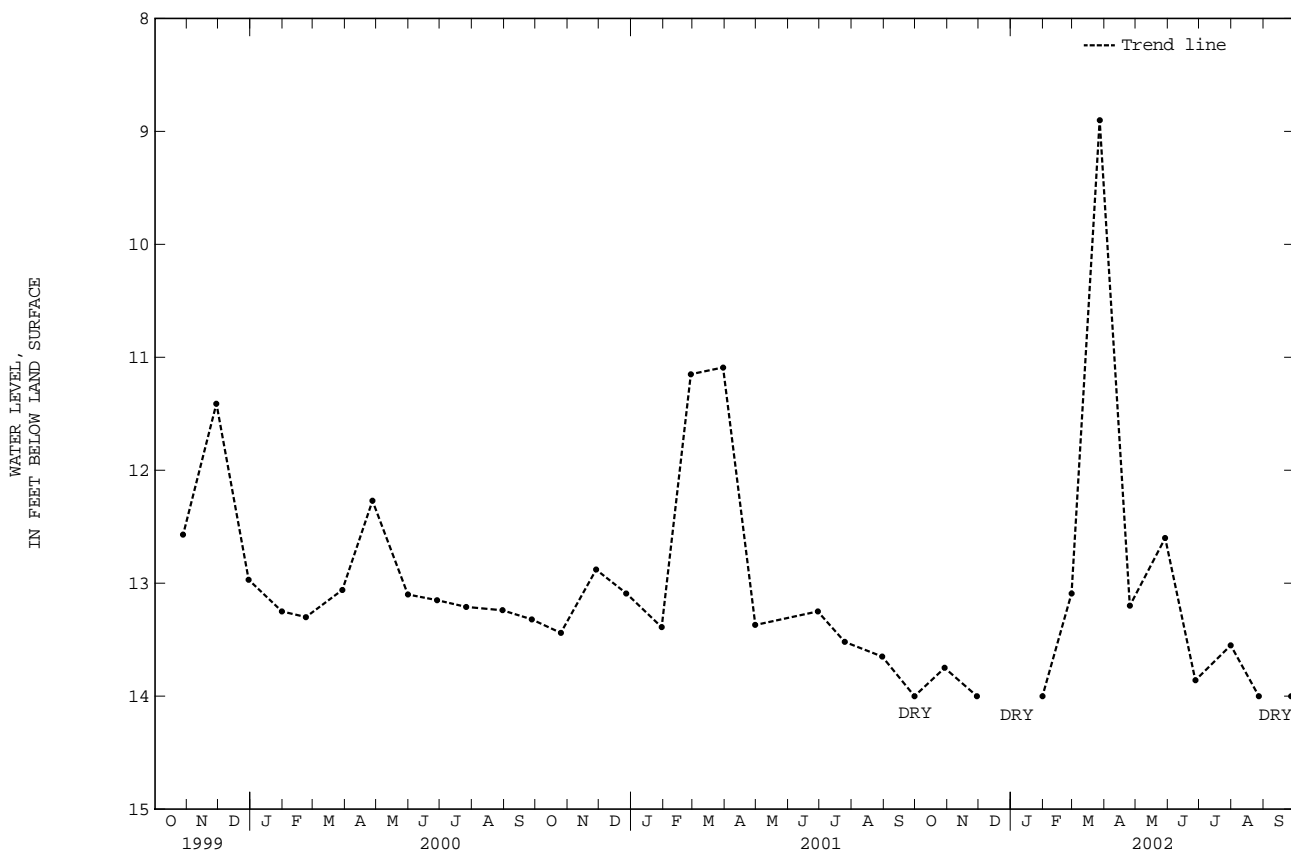
**PERIOD OF RECORD.**--January 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 8.90 ft below land-surface datum, Mar. 27, 2002; lowest water level measured, dry (lower than 14 ft below land-surface datum), Sept. 26, 2001; Nov. 29, 2001; Dec. 28, 2001; Aug. 27, 2002; Sept. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	13.75	DEC 28	DRY	FEB 28	13.09	APR 25	13.20	JUN 27	13.86	AUG 27	DRY
NOV 29	DRY	JAN 31	DRY	MAR 27	8.90	MAY 29	12.60	JUL 31	13.55	SEP 27	DRY
WATER YEAR 2002		HIGHEST	8.90	MAR 27, 2002	LOWEST	DRY	SEVERAL MONTHS				

## HM 450



## GROUND-WATER LEVELS

## NEW HAVEN COUNTY--Continued

412307072515201. Local Number, NHV 201.

**LOCATION.**--Lat 41°23'07", long 72°51'52", Hydrologic Unit 01100004, 3 ft south of curb in southwest corner of parking area for Center School, 35 ft east of Elm St., North Haven; Wallingford quadrangle. Owner: Town of North Haven.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter, 2 in, depth 32 ft, plastic casing to 27 ft, screened 27 ft to 32 ft.

**INSTRUMENTATION.**--Prior to January 1991 measurements made monthly; from January 1991 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 35 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 0.7 ft above land-surface datum.

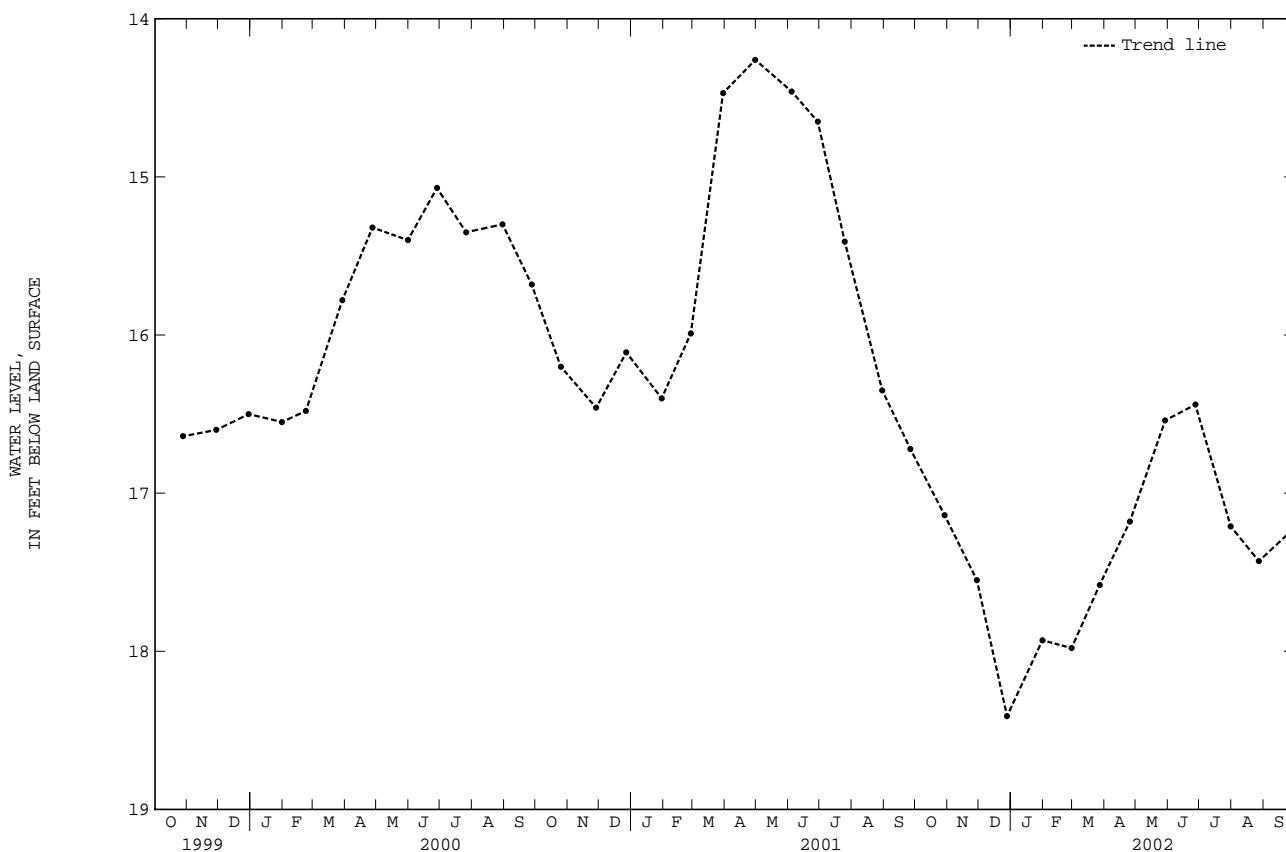
**PERIOD OF RECORD.**--September 1975 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 11.56 ft below land-surface datum, June 28, 1982; lowest water level measured, 18.71 ft below land-surface datum, Nov. 5, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	17.14	DEC 28	18.41	FEB 28	17.98	APR 25	17.18	JUN 27	16.44	AUG 27	17.43
NOV 29	17.55	JAN 31	17.93	MAR 27	17.58	MAY 29	16.54	JUL 31	17.21	SEP 27	17.24
WATER YEAR 2002		HIGHEST	16.44	JUN 27, 2002	LOWEST	18.41	DEC 28, 2001				

## NHV 201



## NEW HAVEN COUNTY--Continued

412954073125201. Local number, SB 30.

**LOCATION.**--Lat 41°29'54", long 73°12'52", Hydrologic Unit 01100005, located about 75 ft west of the intersection of Rts. 6 and 67, 40 ft south of Rt. 67, Southbury; Southbury quadrangle. Owner: State of Connecticut Department of Transportation.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 27.5 ft, PVC casing, screened 22.5 to 27.5 ft.

**INSTRUMENTATION.**--From January 1979 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to September 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 252 ft above sea level, from topographic map. Measuring point: Top of steel protective casing at orange paint mark between hacksaw marks, 1.85 ft above land-surface datum.

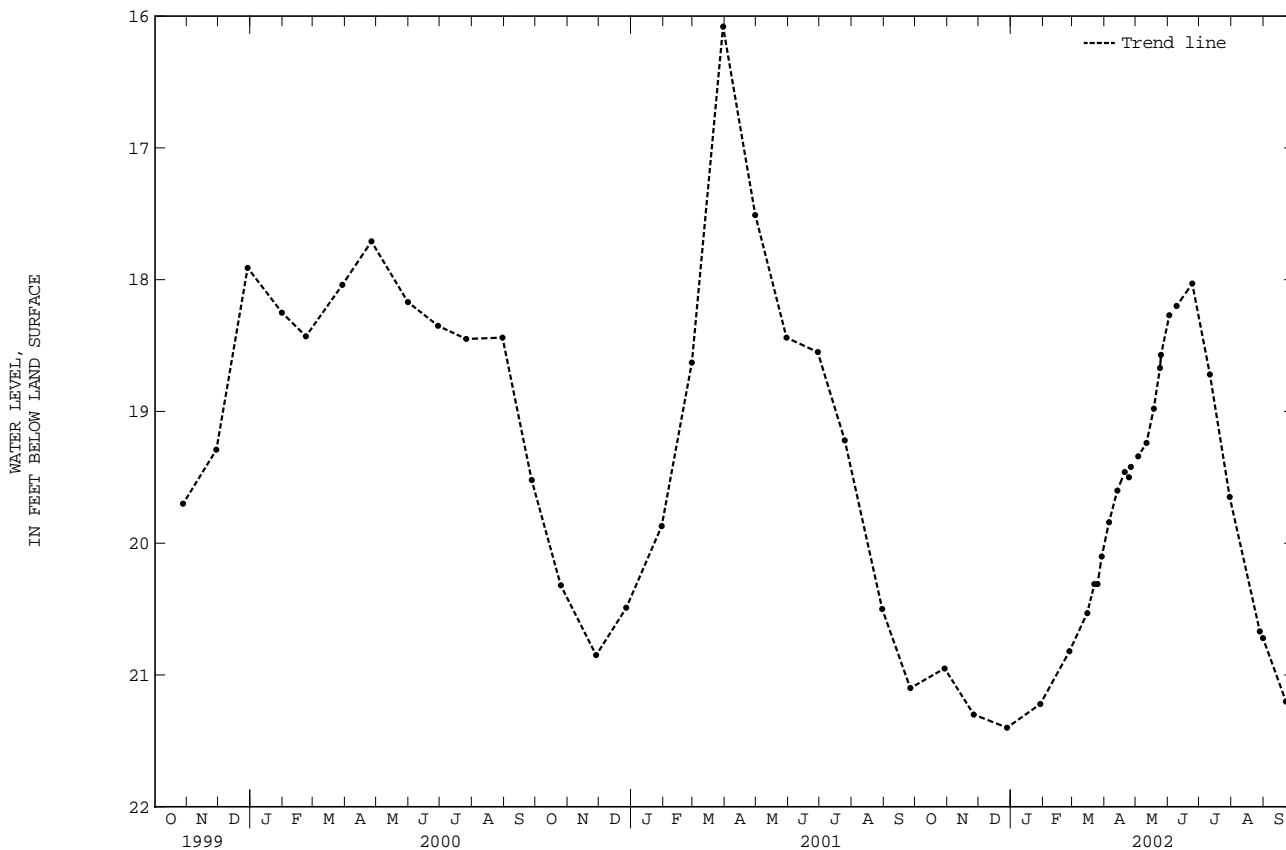
**PERIOD OF RECORD.**--January 1979 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 15.72 ft below land-surface datum, Dec. 26, 1996; lowest water level measured, 22.70 ft below land-surface datum, Oct. 17, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	20.95	MAR 15	20.53	APR 13	19.60	MAY 11	19.24	JUN 09	18.20	AUG 31	20.72
NOV 26	21.30	22	20.31	20	19.46	18	18.98	24	18.03	SEP 22	21.20
DEC 28	21.40	25	20.31	24	19.50	24	18.67	JUL 11	18.72	25	21.30
JAN 29	21.22	29	20.10	26	19.42	25	18.57	30	19.65	29	21.32
FEB 26	20.82	APR 05	19.84	MAY 03	19.34	JUN 02	18.27	AUG 28	20.67		
WATER YEAR 2002		HIGHEST	18.03	JUN 24, 2002	LOWEST	21.40	DEC 28, 2001				

## SB 30



## GROUND-WATER LEVELS

## NEW HAVEN COUNTY--Continued

413002073131001. Local number, SB 39.

**LOCATION.**--Lat 41°30'02", long 73°13'10", Hydrologic Unit 01100005, in George Bennett Town Park, 20 ft north of parking area, behind timber fence, Southbury; Woodbury quadrangle. Owner: Town of Southbury.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 26.5 ft, PVC casing, screened 21 to 26.5 ft.

**INSTRUMENTATION.**--From October 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to September 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 185 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 1.63 ft above land-surface datum.

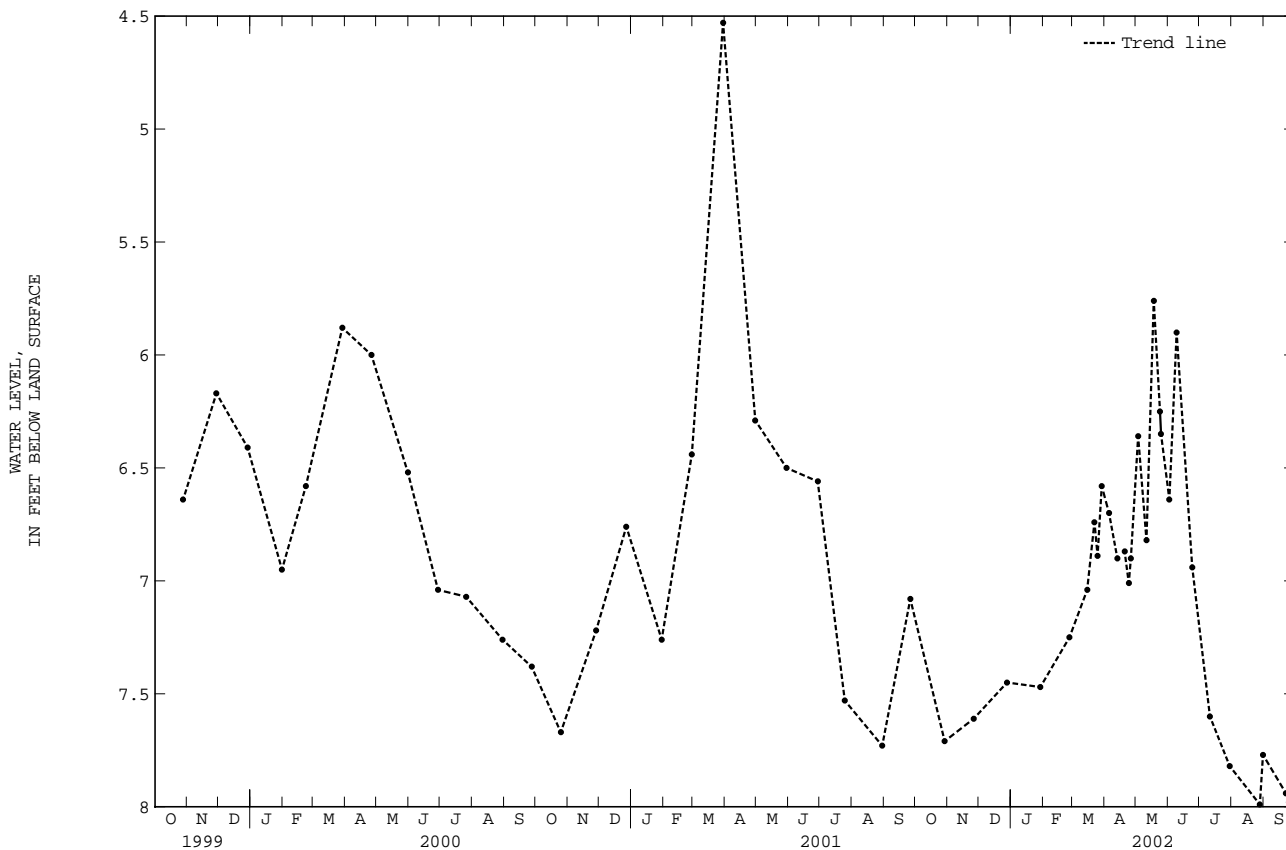
**PERIOD OF RECORD.**--October 1991 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 2.35 ft below land-surface datum, Jan. 29, 1996; lowest water level measured, 8.47 ft below land-surface datum, Sept. 13, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	7.71	MAR 15	7.04	APR 13	6.90	MAY 11	6.82	JUN 09	5.90	AUG 31	7.77
NOV 26	7.61	22	6.74	20	6.87	18	5.76	24	6.94	SEP 22	7.94
DEC 28	7.45	25	6.89	24	7.01	24	6.25	JUL 11	7.60	25	7.98
JAN 29	7.47	29	6.58	26	6.90	25	6.35	30	7.82	29	7.69
FEB 26	7.25	APR 05	6.70	MAY 03	6.36	JUN 02	6.64	AUG 28	7.99		
WATER YEAR 2002		HIGHEST	5.76	MAY 18, 2002	LOWEST	7.99	AUG 28, 2002				

## SB 39



## NEW HAVEN COUNTY--Continued

412935073122701. Local number, SB 41.

**LOCATION.**--Lat 41°29'35", long 73°12'27", Hydrologic Unit 01100005, west end of Hinman Lane, at entrance to Hinman Park Conservation Area, 20 ft south of curb, Southbury; Southbury quadrangle. Owner: Town of Southbury.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 110 ft, PVC casing, well screened 105 to 110.

**INSTRUMENTATION.**--From October 1991 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to September 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 385 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 2.35 ft above land-surface datum.

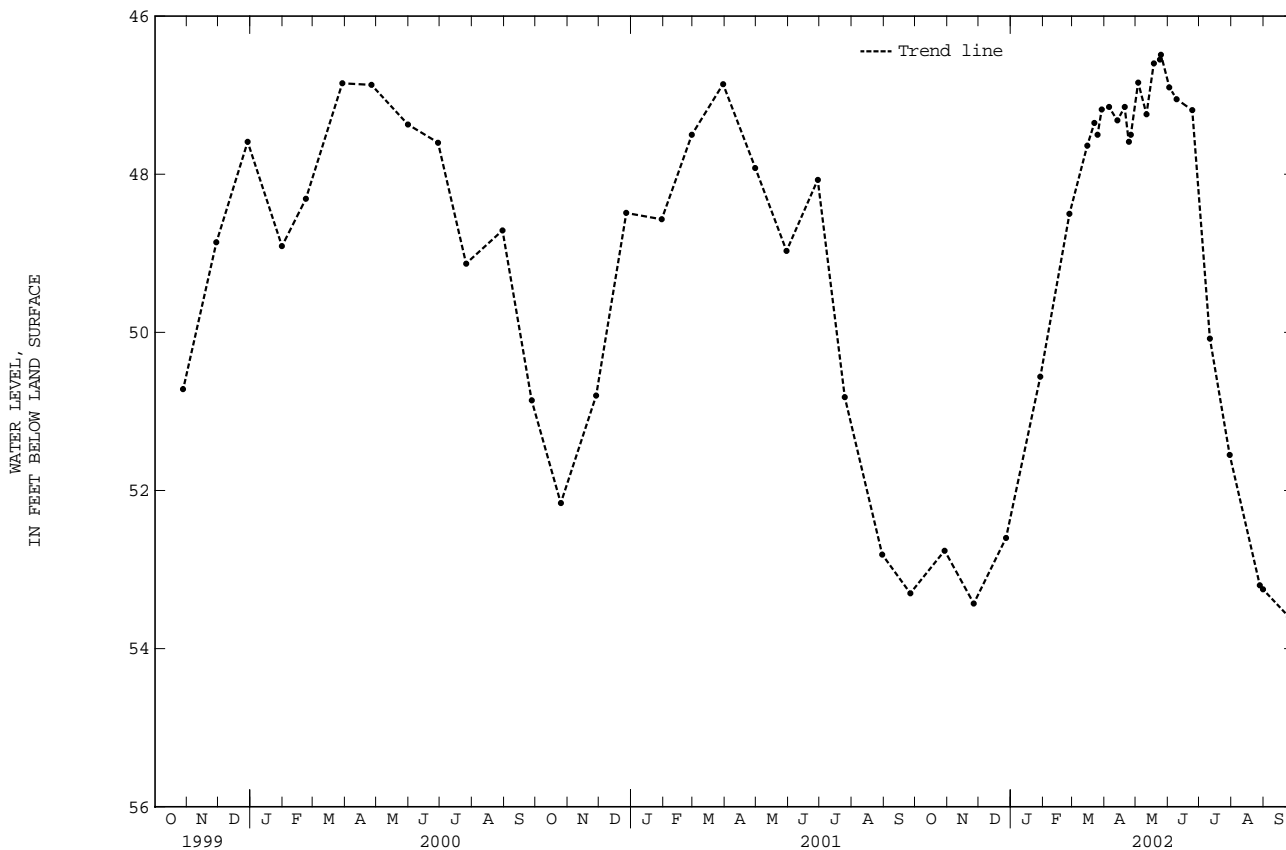
**PERIOD OF RECORD.**--October 1991 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 44.70 ft below land-surface datum, Dec. 16, 1992; lowest water level measured, 56.06 ft below land-surface datum, Sept. 20, 1999.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	52.76	MAR 15	47.64	APR 13	47.32	MAY 11	47.24	JUN 09	47.05	AUG 31	53.25
NOV 26	53.43	22	47.35	20	47.15	18	46.60	24	47.19	SEP 25	53.60
DEC 27	52.60	25	47.50	24	47.59	24	46.55	JUL 11	50.08	29	54.51
JAN 29	50.56	29	47.18	26	47.50	25	46.49	30	51.55		
FEB 26	48.50	APR 05	47.15	MAY 03	46.84	JUN 02	46.90	AUG 28	53.20		
WATER YEAR 2002		HIGHEST	46.49	MAY 25, 2002	LOWEST	54.51	SEP 29, 2002				

## SB 41



## GROUND-WATER LEVELS

## NEW HAVEN COUNTY--Continued

412916073121701. Local number, SB 42.

**LOCATION.**--Lat 41°29'16", long 73°12'17", Hydrologic Unit 01100005, Hunter Ridge, 10 ft from end of cul-de-sac, Southbury; Southbury quadrangle. Owner: Town of Southbury.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 82 ft, PVC casing, well screened 77 to 82.

**INSTRUMENTATION.**--From August 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to September 2002 due to drought conditions. Submersible pressure transducer/ data logger installed Mar. 19, 2002, collects 1-hour water-level data. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 465 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 1.20 ft above land-surface datum.

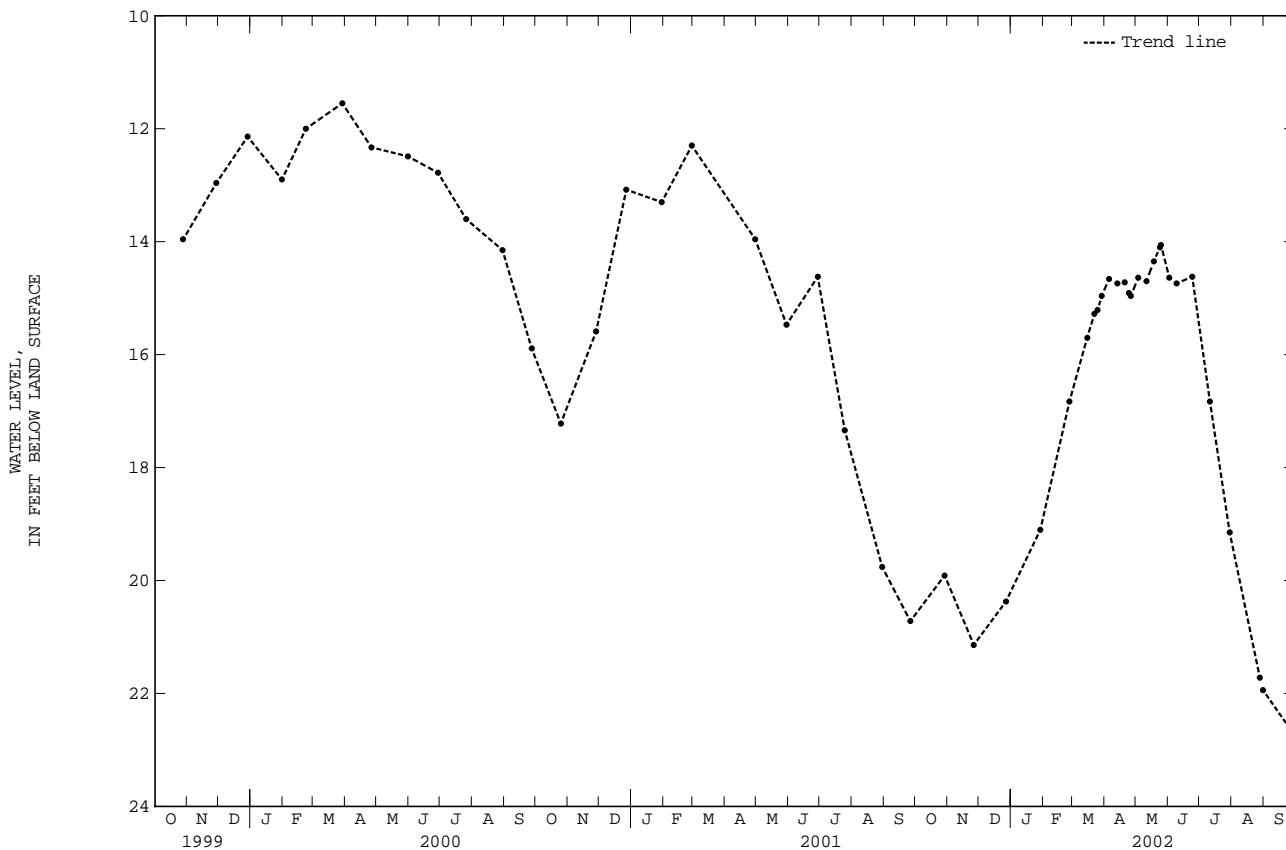
**PERIOD OF RECORD.**--August 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 10.82 ft below land-surface datum, Mar. 28, 1994; lowest water level measured, 24.09 ft below land-surface datum, Sept. 30, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	19.91	MAR 15	15.70	APR 13	14.74	MAY 11	14.70	JUN 09	14.74	AUG 31	21.94
NOV 26	21.14	22	15.28	20	14.72	18	14.35	24	14.62	SEP 25	22.60
DEC 27	20.37	25	15.21	24	14.91	24	14.10	JUL 11	16.83	29	22.65
JAN 29	19.10	29	14.96	26	14.96	25	14.06	30	19.15		
FEB 26	16.83	APR 05	14.66	MAY 03	14.64	JUN 02	14.64	AUG 28	21.72		
WATER YEAR 2002		HIGHEST	14.06	MAY 25, 2002	LOWEST	22.65	SEP 29, 2002				

## SB 42



## GROUND-WATER LEVELS

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## NEW HAVEN COUNTY--Continued

412916073121701. Local number, SB 42.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	15.39	15.34
21	---	---	---	---	---	---	---	---	---	---	15.39	15.37
22	---	---	---	---	---	---	---	---	---	---	15.37	15.31
23	---	---	---	---	---	---	---	---	---	---	15.31	15.26
24	---	---	---	---	---	---	---	---	---	---	15.26	15.20
25	---	---	---	---	---	---	---	---	---	---	15.20	15.19
26	---	---	---	---	---	---	---	---	---	---	15.19	15.18
27	---	---	---	---	---	---	---	---	---	---	15.18	15.13
28	---	---	---	---	---	---	---	---	---	---	15.13	15.07
29	---	---	---	---	---	---	---	---	---	---	15.07	14.98
30	---	---	---	---	---	---	---	---	---	---	14.98	14.89
31	---	---	---	---	---	---	---	---	---	---	14.89	14.83
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.83	14.78	14.94	14.86	14.67	14.62	15.54	15.41	19.45	19.34	22.13	22.05
2	14.78	14.75	14.86	14.76	14.71	14.67	15.67	15.54	19.55	19.45	22.19	22.13
3	14.75	14.72	14.76	14.67	14.78	14.71	15.80	15.67	19.65	19.55	22.24	22.19
4	14.72	14.70	14.67	14.64	14.86	14.78	15.93	15.80	19.72	19.65	22.27	22.24
5	14.70	14.69	14.64	14.61	14.95	14.86	16.07	15.93	19.77	19.72	22.29	22.27
6	14.69	14.67	14.62	14.61	15.02	14.95	16.22	16.07	19.80	19.77	22.29	22.28
7	14.68	14.67	14.62	14.61	15.03	15.00	16.36	16.22	19.89	19.80	22.28	22.27
8	14.68	14.67	14.65	14.62	15.00	14.86	16.51	16.36	19.98	19.89	22.27	22.27
9	14.69	14.68	14.69	14.65	14.86	14.73	16.64	16.51	20.06	19.98	22.27	22.26
10	14.72	14.69	14.74	14.69	14.73	14.61	16.77	16.64	20.14	20.06	22.26	22.25
11	14.75	14.72	14.82	14.74	14.61	14.55	16.92	16.77	20.22	20.14	22.25	22.24
12	14.79	14.75	14.89	14.82	14.55	14.53	17.05	16.92	20.29	20.22	22.26	22.24
13	14.81	14.79	14.93	14.89	14.53	14.52	17.19	17.05	20.36	20.29	22.28	22.26
14	14.83	14.81	14.92	14.82	14.54	14.52	17.32	17.19	20.45	20.36	22.32	22.28
15	14.83	14.83	14.82	14.66	14.55	14.54	17.45	17.32	20.55	20.45	22.35	22.32
16	14.83	14.82	14.66	14.54	14.55	14.51	17.57	17.45	20.63	20.55	22.39	22.35
17	14.82	14.79	14.54	14.46	14.51	14.46	17.71	17.57	20.72	20.63	22.42	22.39
18	14.80	14.78	14.46	14.40	14.46	14.43	17.84	17.71	20.80	20.72	22.45	22.42
19	14.79	14.78	14.40	14.28	14.44	14.43	17.96	17.84	20.90	20.80	22.47	22.45
20	14.78	14.77	14.28	14.18	14.46	14.43	18.09	17.96	21.00	20.90	22.50	22.47
21	14.81	14.78	14.18	14.11	14.49	14.46	18.22	18.09	21.10	21.00	22.51	22.49
22	14.84	14.81	14.11	14.09	14.54	14.49	18.35	18.22	21.19	21.10	22.52	22.51
23	14.88	14.84	14.10	14.09	14.60	14.54	18.47	18.35	21.29	21.19	22.53	22.51
24	14.92	14.88	14.11	14.10	14.68	14.60	18.59	18.47	21.38	21.29	22.57	22.52
25	14.97	14.92	14.17	14.11	14.78	14.68	18.71	18.59	21.48	21.38	22.61	22.57
26	15.03	14.97	14.25	14.17	14.89	14.78	18.82	18.71	21.58	21.48	22.65	22.61
27	15.05	15.03	14.33	14.25	15.00	14.89	18.93	18.82	21.69	21.58	22.67	22.65
28	15.06	15.05	14.42	14.33	15.12	15.00	19.02	18.93	21.78	21.69	22.69	22.67
29	15.06	15.01	14.50	14.42	15.26	15.12	19.12	19.02	21.87	21.78	22.70	22.69
30	15.01	14.94	14.56	14.50	15.41	15.26	19.23	19.12	21.95	21.87	22.70	22.69
31	---	---	14.62	14.56	---	---	19.34	19.23	22.05	21.95	---	---
MONTH	15.06	14.67	14.94	14.09	15.41	14.43	19.34	15.41	22.05	19.34	22.70	22.05

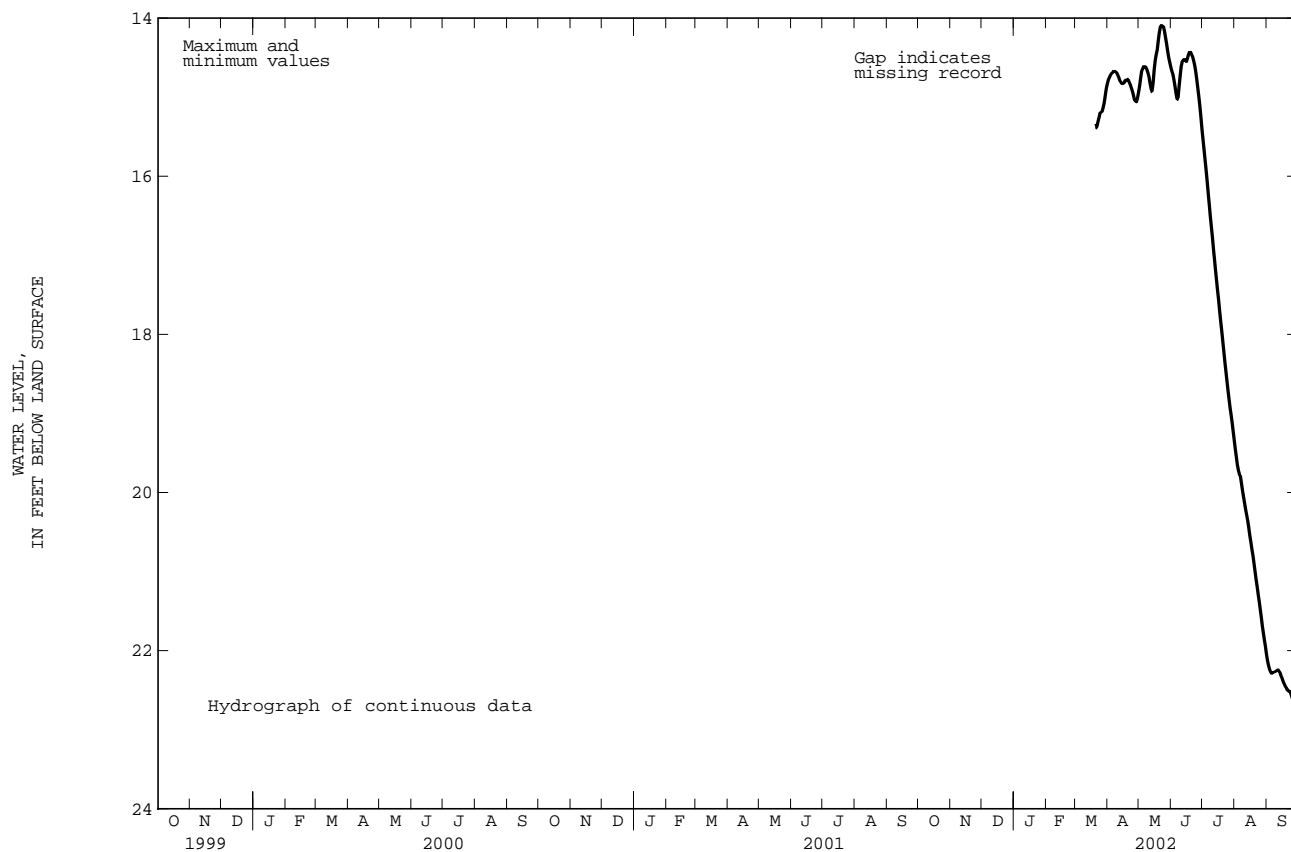
## GROUND-WATER LEVELS

NEW HAVEN COUNTY--Continued

412916073121701. Local number, SB 42.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

## SB 42





## NEW HAVEN COUNTY--Continued

413134073021701. Local Number, WB 93.

**LOCATION.**--Lat 41°31'34", long 73°02'17", Hydrologic Unit 01100005, 10 ft east of house at 118 Pearl Lake Rd., Waterbury; Waterbury quadrangle. Owner: G. Gordin.

**AQUIFER.**--Stratified drift of Pleistocene age (gravel).

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 32 in, depth 33 ft, fieldstone-lined.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to May 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 320 ft above sea level, from topographic map. Measuring point: Bottom edge of concrete cap, northwest corner of well, at land-surface datum.

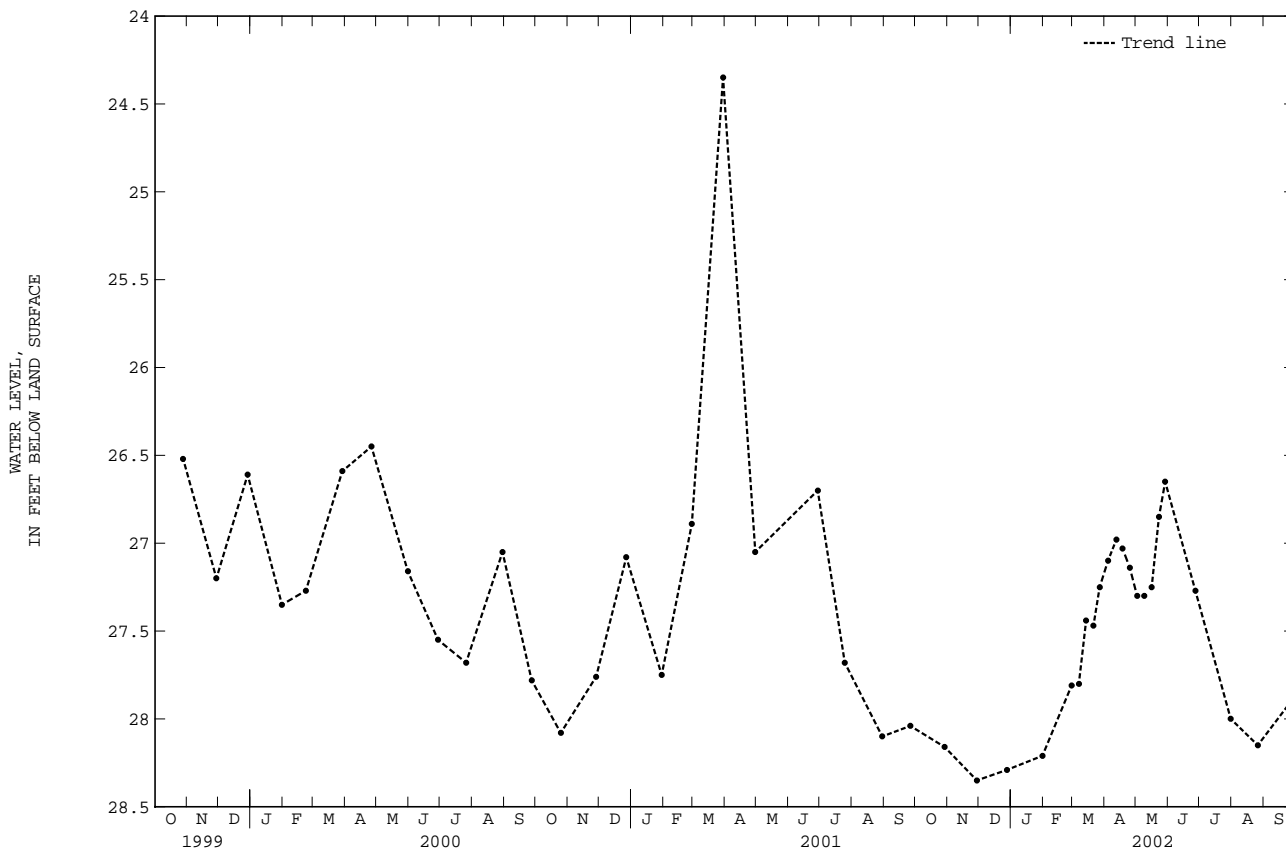
**PERIOD OF RECORD.**--October 1943 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 21.45 ft below land-surface datum, Feb. 26, 1999; lowest water level measured, 29.68 ft below land-surface datum, Sept. 27, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	28.16	FEB 28	27.81	MAR 27	27.25	APR 25	27.14	MAY 23	26.85	AUG 26	28.15
NOV 29	28.35	MAR 07	27.80	APR 04	27.10	MAY 02	27.30	29	26.65	SEP 27	27.90
DEC 28	28.29	14	27.44	12	26.98	09	27.30	JUN 27	27.27		
JAN 31	28.21	21	27.47	18	27.03	16	27.25	JUL 31	28.00		
WATER YEAR 2002		HIGHEST	26.65	MAY 29, 2002	LOWEST	28.35	NOV 29, 2001				

## WB 93



## GROUND-WATER LEVELS

## NEW HAVEN COUNTY--Continued

413245072584201. Local Number, WB 198.

**LOCATION.**--Lat 41°32'45", long 72°58'42", Hydrologic Unit 01100005, 10 ft north of house at 185 Pierpont Rd., Waterbury; Southington quadrangle. Owner: A. Baker.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 30 in, depth 31 ft, stone-lined.

**INSTRUMENTATION.**--Prior to December 1990 measurements made monthly; from December 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to May 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 540 ft above sea level, from topographic map. Measuring point: Top of flagstone curb at orange paint mark, at southeast corner, at land-surface datum.

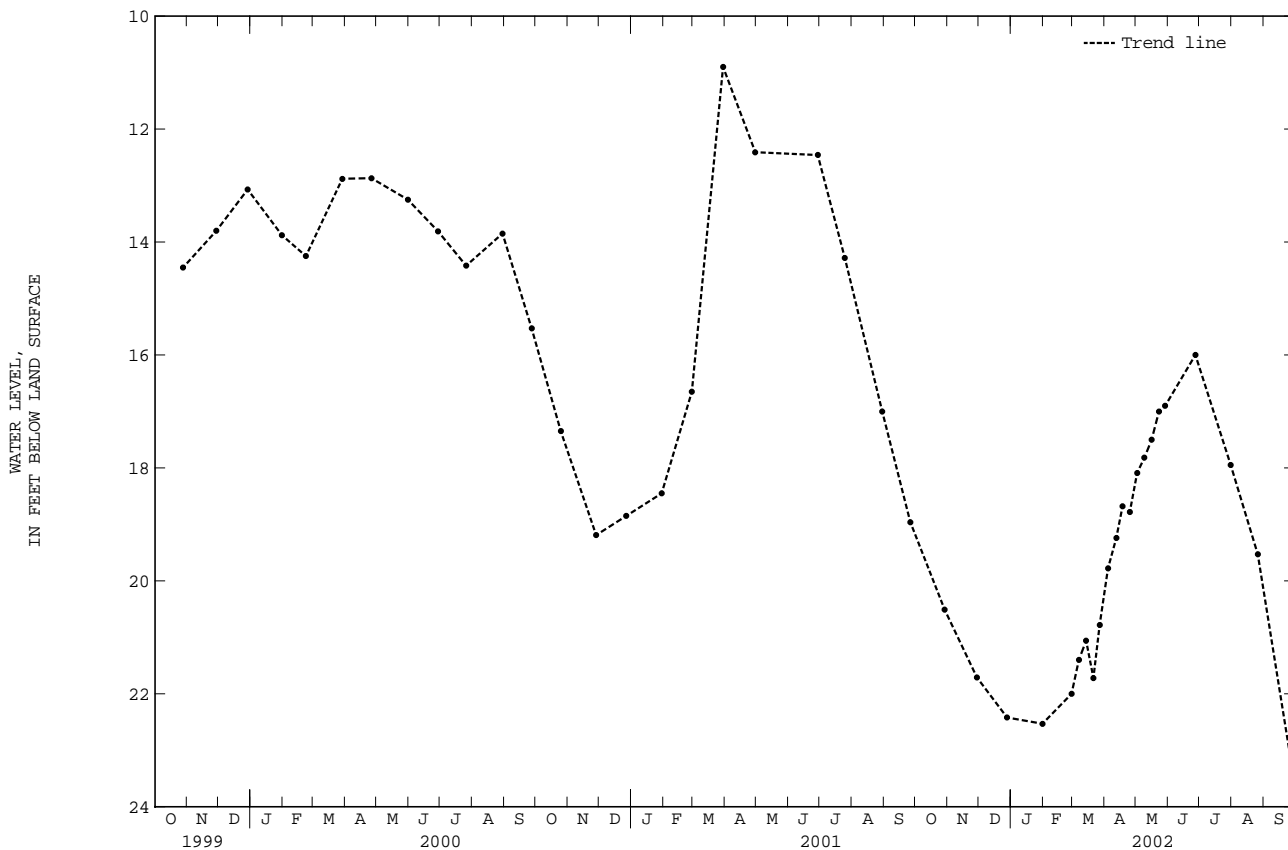
**PERIOD OF RECORD.**--October 1943 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 5.49 ft below land-surface datum, Jan. 10, 1946; lowest water level measured, 23.20 ft below land-surface datum, Sept. 27, 2002.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	20.51	FEB 28	22.00	MAR 27	20.78	APR 25	18.78	MAY 23	17.00	AUG 26	19.53
NOV 29	21.71	MAR 07	21.40	APR 04	19.78	MAY 02	18.09	29	16.90	SEP 27	23.20
DEC 28	22.42	14	21.06	12	19.24	09	17.82	JUN 27	16.00		
JAN 31	22.53	21	21.72	18	18.68	16	17.50	JUL 31	17.95		
WATER YEAR 2002		HIGHEST	16.00	JUN 27, 2002	LOWEST	23.20	SEP 27, 2002				

## WB 198



## NEW LONDON COUNTY

413457072252201. Local Number, CO 335.

**LOCATION.**--Lat 41°34'57", long 72°25'22", Hydrologic Unit 01080205, about 80 ft east of Blackledge River and about 600 ft south of River Rd., Colchester; Moodus quadrangle. Owner: Connecticut Department of Environmental Protection.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 29.1 ft, PVC casing, screened 27 to 29 ft.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 145 ft above sea level, from topographic map. Measuring point: Top of steel protective casing 0.2 ft above land-surface datum.

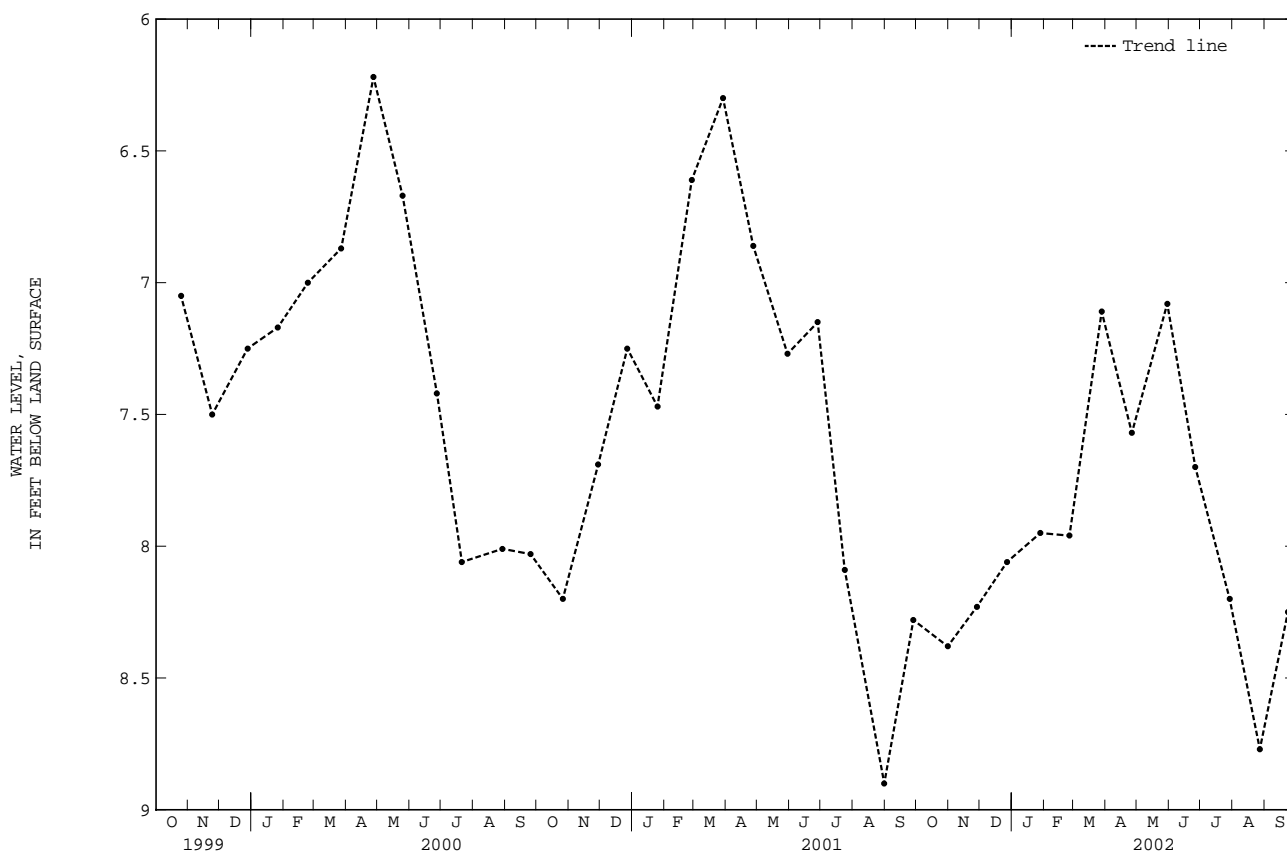
**PERIOD OF RECORD.**--January 1986 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 4.05 ft below land-surface datum, Nov. 28, 1995; lowest water level measured, 9.35 ft below land-surface datum, July 31, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 31	8.38	DEC 27	8.06	FEB 25	7.96	APR 26	7.57	JUN 26	7.70	AUG 27	8.77
NOV 28	8.23	JAN 28	7.95	MAR 28	7.11	MAY 30	7.08	JUL 29	8.20	SEP 23	8.25
WATER YEAR 2002		HIGHEST	7.08	MAY 30, 2002		LOWEST	8.77	AUG 27, 2002			

## CO 335



## GROUND-WATER LEVELS

## NEW LONDON COUNTY--Continued

412013072030601. Local Number, GT 19.

**LOCATION.**--Lat 41°20'13", long 72°03'06", Hydrologic Unit 01100003, 150 ft east and 48 ft north of junction of Poquonock Ave. (High Rock Rd.) with Thomas Rd. and Tower Rd., Groton; New London quadrangle. Owner: John E. Ackley, Jr.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 24 in, depth 18 ft, fieldstone-lined.

**INSTRUMENTATION.**--Measurements made weekly with a chalked tape by paid observer.

**DATUM.**--Elevation of land-surface datum is 22 ft above sea level, from topographic map. Measuring point: Bottom of fieldstone on west side of well at land-surface datum.

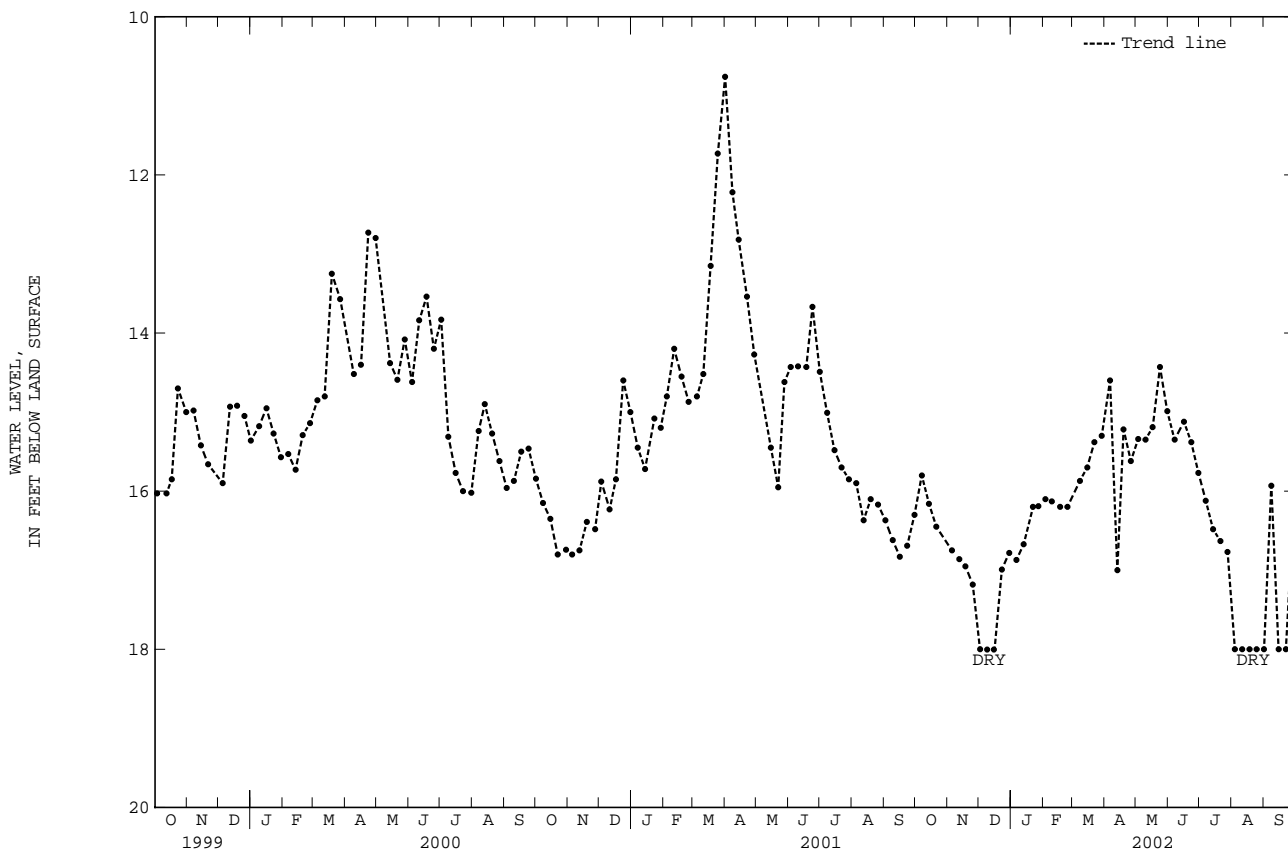
**PERIOD OF RECORD.**--May 1958 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 7.35 ft below land-surface datum, June 7, 1982; lowest water level measured, dry (lower than 18 ft below land-surface datum) on Sept. 10, 1995; Sept. 28, 1997; October 05, 09, 19, 1997; July 18, 25, 1999; Aug. 1, 8, 15, 22, 29, 1999; Sept. 5, 1999; Dec. 2, 9, 16, 2001; Aug. 4, 11, 18, 25, 2002; Sept. 1, 15, 22, 2002.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	15.80	DEC 16	DRY	FEB 17	16.20	APR 26	15.62	JUN 30	15.77	SEP 01	DRY
14	16.16	23	16.99	24	16.20	MAY 03	15.34	JUL 07	16.12	08	15.93
21	16.45	30	16.78	MAR 08	15.87	10	15.35	14	16.48	15	DRY
NOV 05	16.75	JAN 06	16.87	15	15.70	17	15.19	21	16.63	22	DRY
12	16.86	13	16.67	22	15.38	24	14.43	28	16.77	29	16.33
18	16.95	22	16.20	29	15.30	31	14.99	AUG 04	DRY		
25	17.18	27	16.19	APR 06	14.60	JUN 07	15.35	11	DRY		
DEC 02	DRY	FEB 03	16.10	13	17.00	16	15.12	18	DRY		
09	DRY	09	16.13	19	15.22	23	15.38	25	DRY		
WATER YEAR 2002		HIGHEST	14.43	MAY 24, 2002	LOWEST	DRY	NUMEROUS DATES				

## GT 19



## NEW LONDON COUNTY--Continued

412931071514201. Local number, NSN 77.

**LOCATION.**--Lat 41°29'31", long 71°51'42", Hydrologic Unit 01090005, about 30 ft north of Wyassup Lake Rd., 0.1 mi east of entrance to cemetery, North Stonington; Ashaway quadrangle. Owner: Connecticut Department of Environmental Protection.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 43 ft, PVC casing, screened 38 to 43 ft.

**INSTRUMENTATION.**--From October 1991 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 520 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 2.00 ft above land-surface datum.

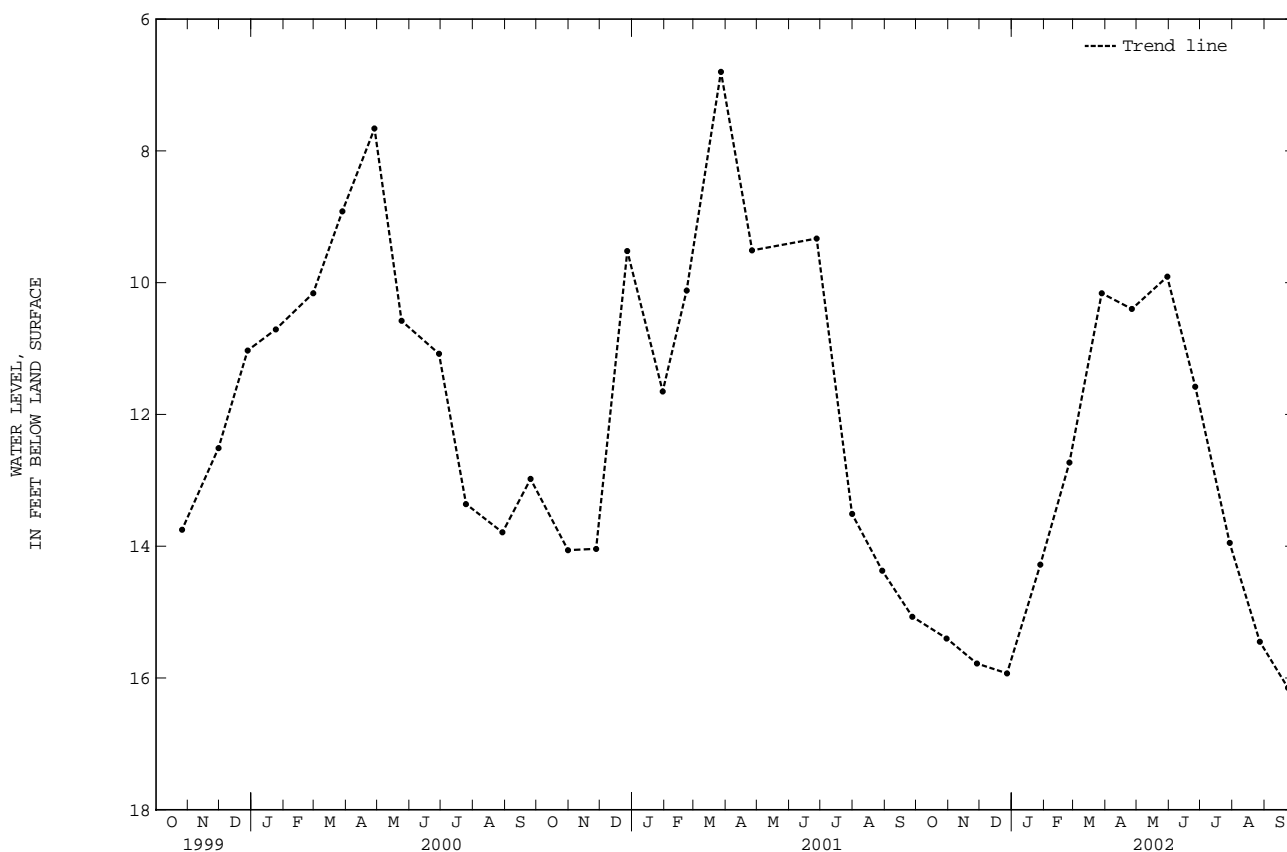
**PERIOD OF RECORD.**--October 1991 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 5.99 ft below land-surface datum, Jan. 29, 1998; lowest water level measured, 17.33 ft below land-surface datum, Oct. 25, 1993.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	15.40	DEC 27	15.93	FEB 25	12.73	APR 26	10.40	JUN 26	11.58	AUG 27	15.45
NOV 28	15.78	JAN 28	14.28	MAR 28	10.16	MAY 30	9.91	JUL 29	13.95	SEP 23	16.15
WATER YEAR 2002		HIGHEST	9.91	MAY 30, 2002		LOWEST	16.15	SEP 23, 2002			

## NSN 77



## GROUND-WATER LEVELS

## NEW LONDON COUNTY--Continued

412746071510601. Local number, NSN 78.

**LOCATION.**--Lat 41°29'47", long 71°51'04", Hydrologic Unit 01090005, 5 ft north of Wyassup Lake Rd., 90 ft west of Hetchel Swamp Brook, North Stonington; Ashaway quadrangle. Owner: Connecticut Department of Environmental Protection.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table well, diameter 2 in, depth 10 ft, PVC casing, screened 5 to 10 ft.

**INSTRUMENTATION.**--From October 1991 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 325 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 0.70 ft above land-surface datum.

**PERIOD OF RECORD.**--October 1991 to current year.

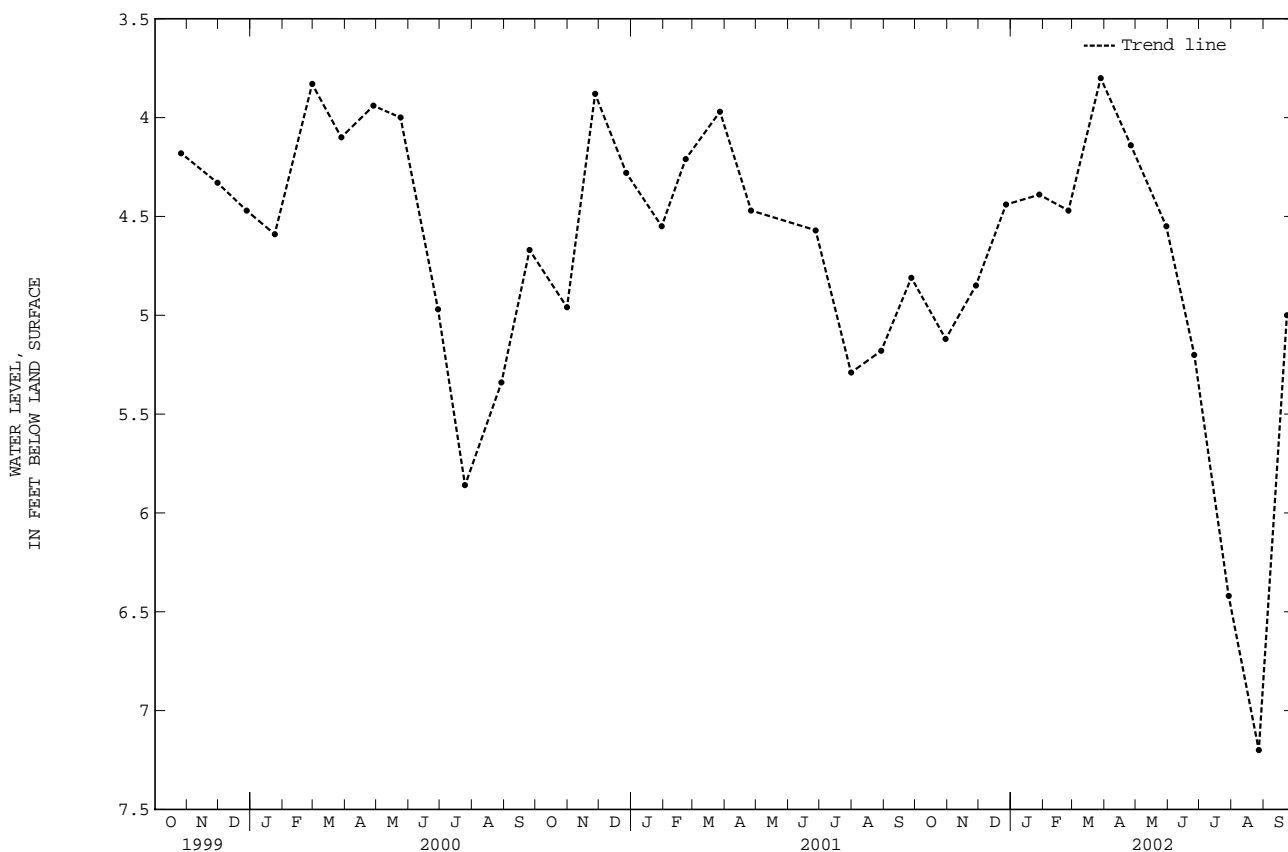
**REVISED RECORDS.**--WDR 2002: Latitude/longitude.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 1.93 ft below land-surface datum, Apr. 26, 1994; lowest water level measured, 7.20 ft below land-surface datum, Aug. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	5.12	DEC 27	4.44	FEB 25	4.47	APR 26	4.14	JUN 26	5.20	AUG 27	7.20
NOV 28	4.85	JAN 28	4.39	MAR 28	3.80	MAY 30	4.55	JUL 29	6.42	SEP 23	5.00
WATER YEAR 2002		HIGHEST	3.80	MAR 28, 2002		LOWEST	7.20	AUG 27, 2002			

## NSN 78



## NEW LONDON COUNTY--Continued

412824072173301. Local Number, SM 7.

**LOCATION.**--Lat 41°28'24", long 72°17'33", Hydrologic Unit 01080205, 100 ft east of State Rt. 11 northbound lane, 0.9 mi north of junction with Rt. 82, Salem; Hamburg quadrangle. Owner: Connecticut Department of Transportation.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 17 ft, plastic casing to 12 ft, screened 12 to 17 ft.

**INSTRUMENTATION.**--Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made

biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape;

since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 238 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 1.70 ft above land-surface datum.

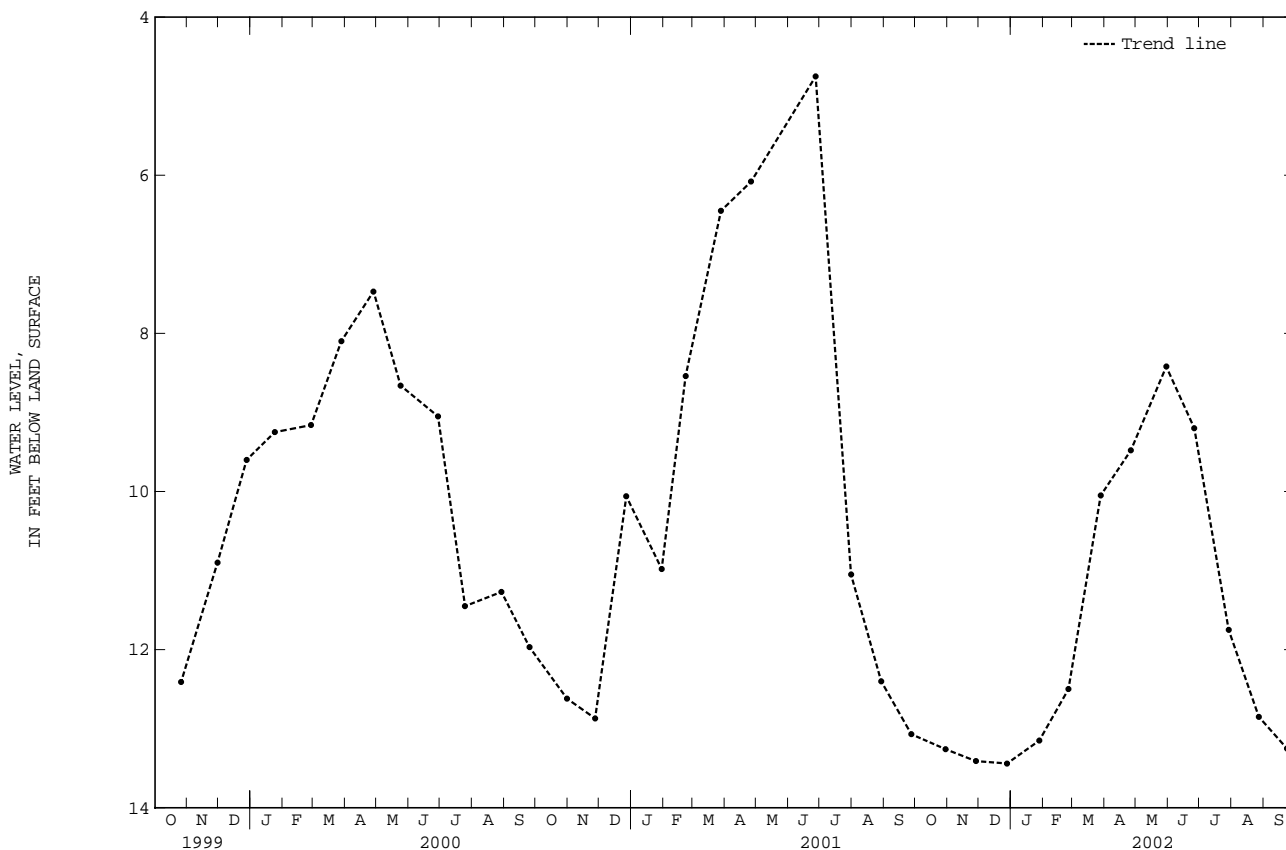
**PERIOD OF RECORD.**--March 1979 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 4.75 ft below land-surface datum, June 27, 2001; lowest water level measured, 13.90 ft below land-surface datum, Oct. 30, 1997.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	13.26	DEC 28	13.44	FEB 25	12.50	APR 26	9.48	JUN 26	9.20	AUG 27	12.85
NOV 28	13.41	JAN 28	13.15	MAR 28	10.05	MAY 30	8.42	JUL 29	11.75	SEP 23	13.25
WATER YEAR 2002		HIGHEST	8.42	MAY 30, 2002	LOWEST	13.44	DEC 28, 2001				

## SM 7



## GROUND-WATER LEVELS

## TOLLAND COUNTY

414833072190301. Local Number, CV 51.

**LOCATION.**--Lat 41°48'33", long 72°19'03", Hydrologic Unit 01100002, Southeast corner of hay field 165 ft east of Brigham Tavern Rd., 3,600 ft north of Rt. 44, Coventry; Coventry quadrangle. Owner: University of Connecticut.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table, diameter 2 in, depth 37 ft, PVC casing, slotted 35.5 to 37 ft.

**INSTRUMENTATION.**--From 1992 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 295 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 1.23 ft above land-surface datum.

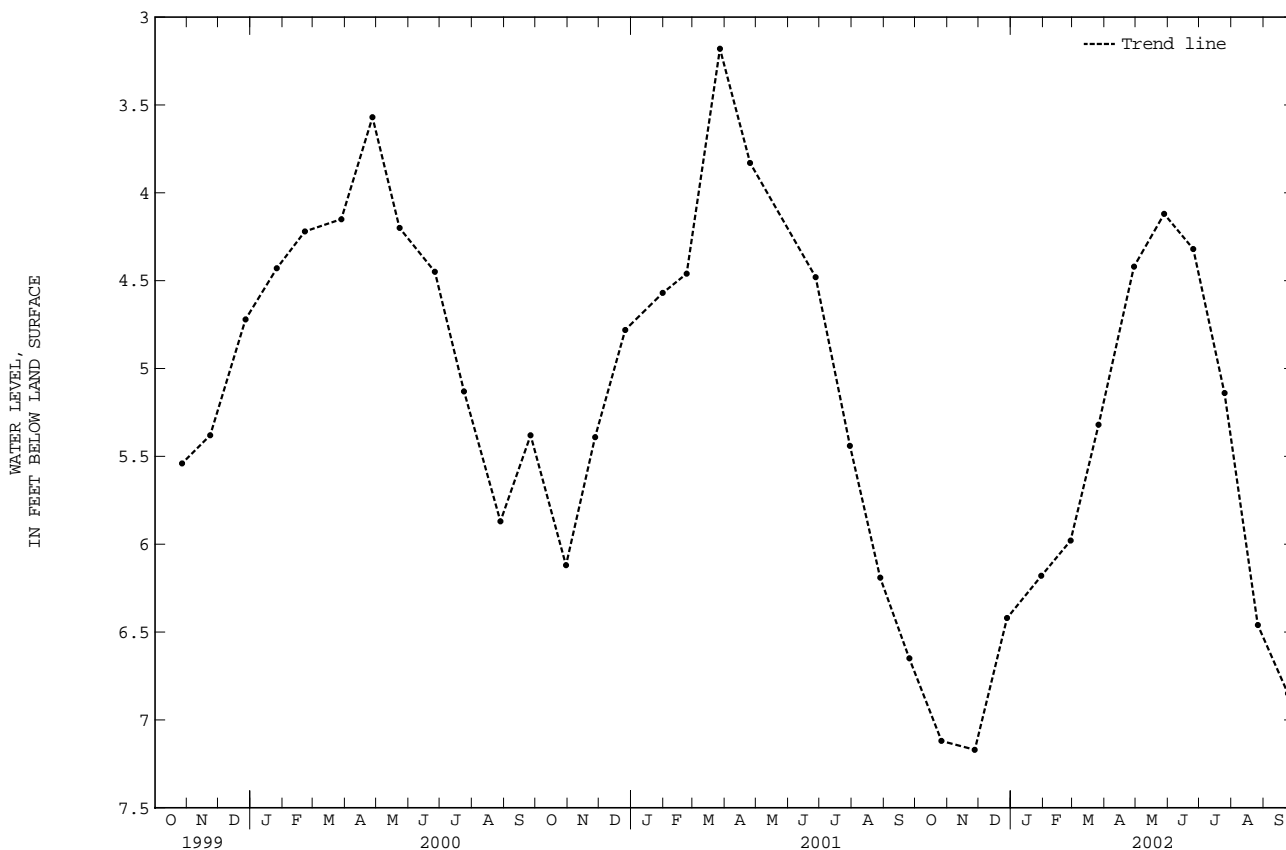
**PERIOD OF RECORD.**--December 1992 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 2.81 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 7.78 ft below land-surface datum, Sept. 10, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	7.12	DEC 28	6.42	FEB 27	5.98	APR 29	4.42	JUN 25	4.32	AUG 26	6.46
NOV 27	7.17	JAN 30	6.18	MAR 26	5.32	MAY 28	4.12	JUL 25	5.14	SEP 24	6.85
WATER YEAR 2002		HIGHEST		4.12		MAY 28, 2002		LOWEST		7.17	
										NOV 27, 2001	

## CV 51





## TOLLAND COUNTY--Continued

415458072291901. Local Number, EL 82.

**LOCATION.**--Lat 41°54'58", long 72°29'19", Hydrologic Unit 01080205, in Town recreation park, 1,000 ft north of State Rt. 140 and 1,000 ft west of Hatheway Rd., Ellington; Ellington quadrangle. Owner: Town of Ellington.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Drilled, unused, water-table well, diameter 2 in, depth 24.5 ft, stainless steel casing.

**INSTRUMENTATION.**--From May 1994 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 193 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 2.53 ft above land-surface datum.

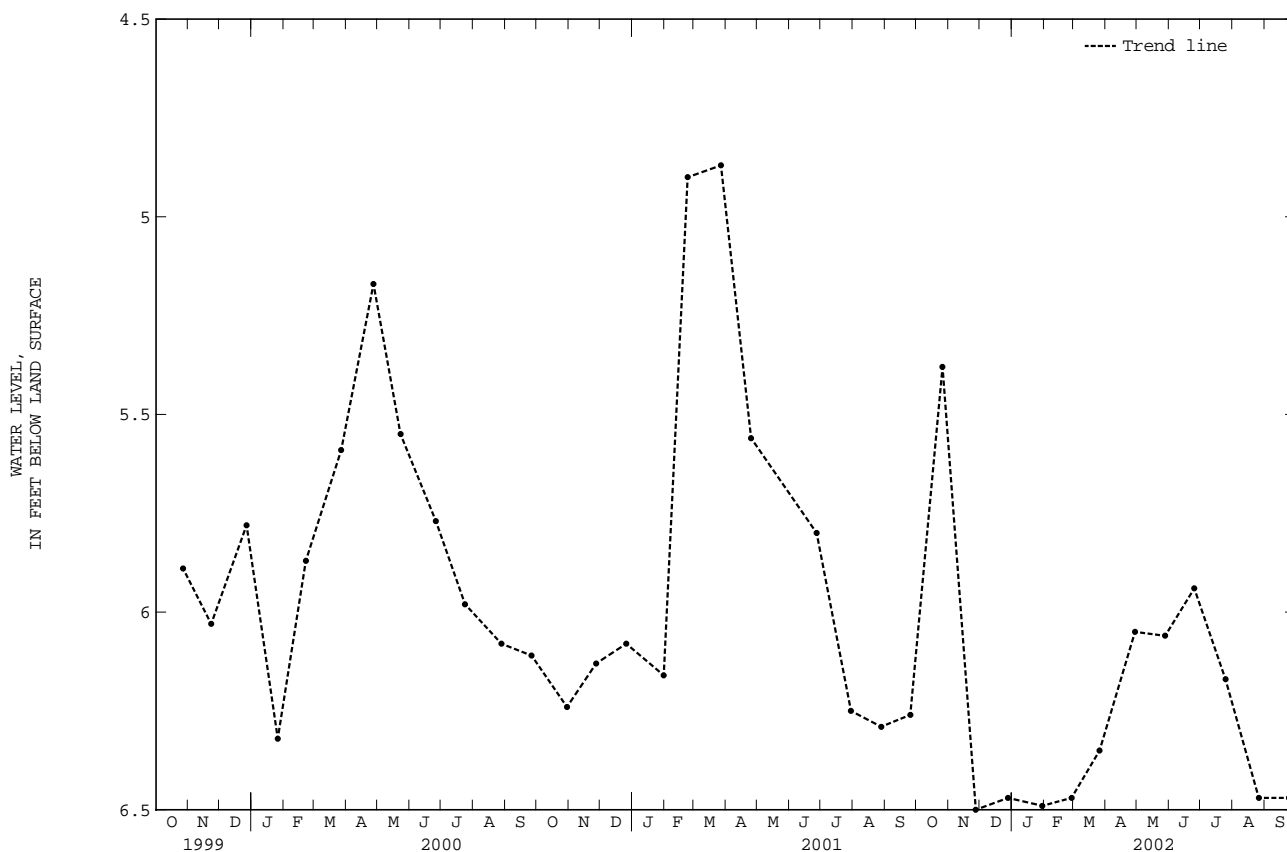
**PERIOD OF RECORD.**--May 1987 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 4.87 ft below land-surface datum, Mar. 27, 2001; lowest water level measured, 8.35 ft below land-surface datum, May 11, 1987.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.38	DEC 28	6.47	FEB 27	6.47	APR 29	6.05	JUN 25	5.94	AUG 26	6.47
NOV 27	6.50	JAN 30	6.49	MAR 26	6.35	MAY 28	6.06	JUL 25	6.17	SEP 24	6.47
WATER YEAR 2002		HIGHEST	5.38	OCT 26, 2001	LOWEST	6.50	NOV 27, 2001				

## EL 82



## GROUND-WATER LEVELS

## TOLLAND COUNTY--Continued

415640072275801. Local Number, EL 139.

**LOCATION.**--Lat 41°56'40", long 72°27'58", Hydrologic Unit 01080205, end of cul de sac, Overhill Rd., Ellington; Ellington quadrangle. Owner: Town of Ellington.

**AQUIFER.**--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled, unused, water-table well, diameter 2 in, depth 32.8 ft, PVC casing, slotted 25.5 to 37.0 ft.

**INSTRUMENTATION.**--From December 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 436 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 1.56 ft above land-surface datum.

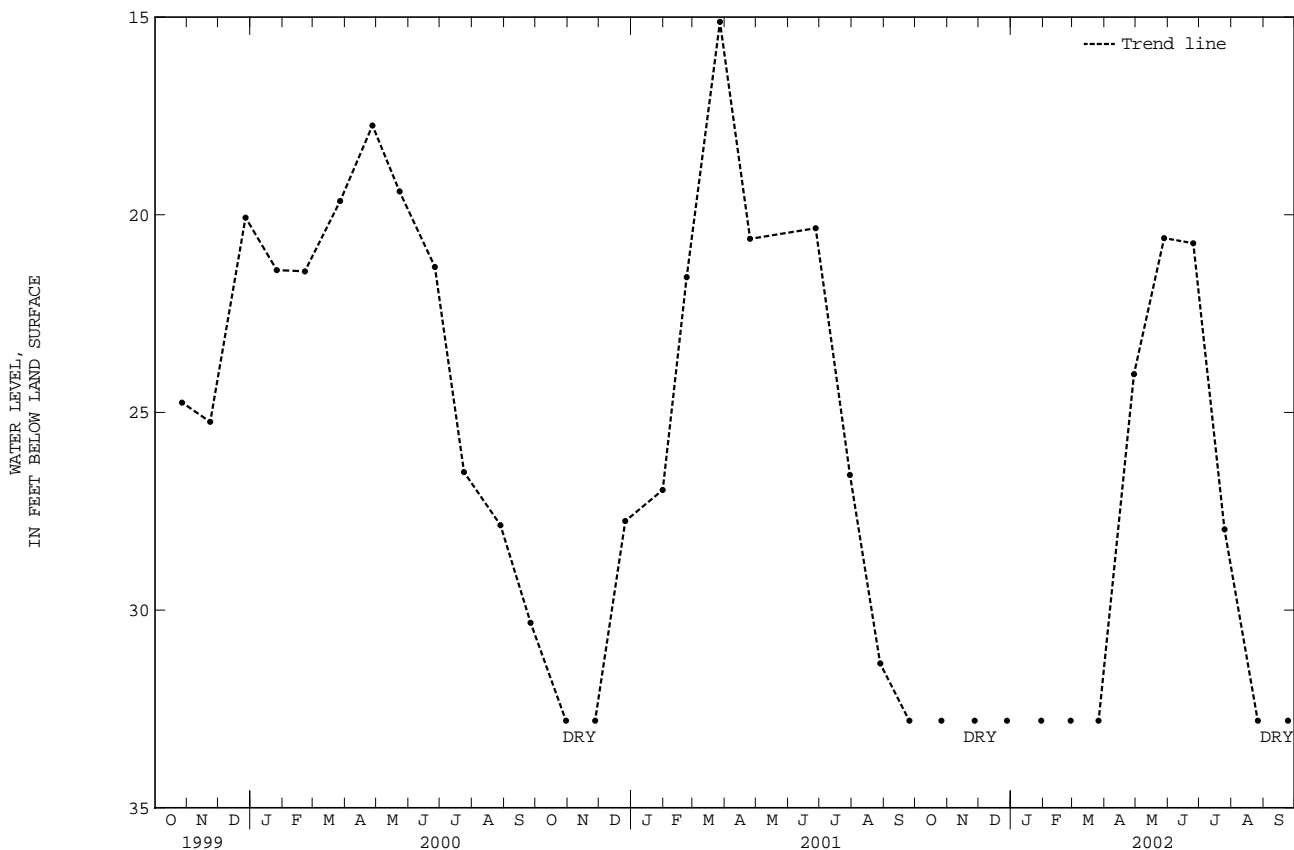
PERIOD OF RECORD.--December 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 15.12 ft below land-surface datum, Mar. 27, 2001; lowest water level measured, dry (lower than 32.8 ft below land-surface datum), on numerous days.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	DRY	DEC 28	DRY	FEB 27	DRY	APR 29	24.03	JUN 25	20.72	AUG 26	DRY
NOV 27	DRY	JAN 30	DRY	MAR 26	DRY	MAY 28	20.59	JUL 25	27.96	SEP 24	DRY
WATER YEAR 2002		HIGHEST	20.59	MAY 28, 2002		LOWEST	27.96	JUL 25, 2002			

EL 139



## TOLLAND COUNTY--Continued

415312072280201. Local Number, EL 140.

**LOCATION.**--Lat 41°53'12", long 72°28'02", Hydrologic Unit 01080205, Metcalf nature trail, 10 ft north of Cedarwood Dr. directly across from intersection with Pinewood Lane, Ellington; Ellington quadrangle. Owner: Town of Ellington.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Drilled, unused, water-table well, diameter 2 in, depth 25.8 ft, PVC casing.

**INSTRUMENTATION.**--From December 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 380 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 2.36 ft above land-surface datum.

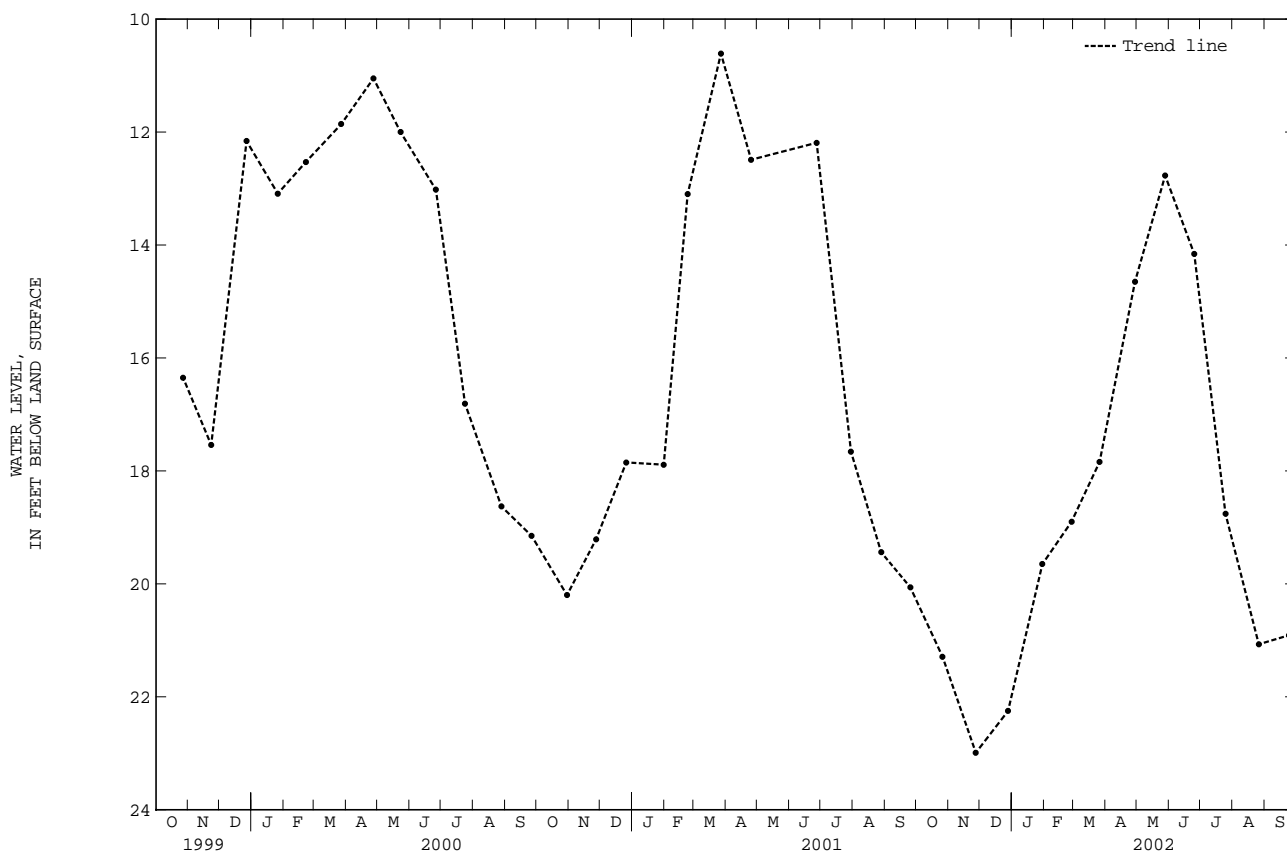
**PERIOD OF RECORD.**--December 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 10.27 ft below land-surface datum, Jan. 26, 1996; lowest water level measured, 22.99 ft below land-surface datum, Nov. 27, 2001.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	21.29	DEC 28	22.25	FEB 27	18.90	APR 29	14.65	JUN 25	14.16	AUG 26	21.07
NOV 27	22.99	JAN 30	19.65	MAR 26	17.84	MAY 28	12.77	JUL 25	18.76	SEP 24	20.91
WATER YEAR 2002		HIGHEST	12.77	MAY 28, 2002		LOWEST	22.99	NOV 27, 2001			

## EL 140



## GROUND-WATER LEVELS

## TOLLAND COUNTY--Continued

414548072114501. Local Number, MS 19.

**LOCATION.**--Lat 41°45'48", long 72°11'45", Hydrologic Unit 01100002, 400 ft east of State Rt. 195 and 225 ft north of Cemetery Rd., Mansfield; Spring Hill quadrangle. Owner: C.T. DeBoer.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 36 in, depth 21.3 ft, concrete tile.

**INSTRUMENTATION.**--Prior to July 1984 measurements made monthly; from July 1984 through September 1989 measurements made weekly; October 1989 through September 1993 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape.

Additional measurements made March to May 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 260 ft above sea level, from topographic map. Measuring point: Top of tile, east side at land-surface datum.

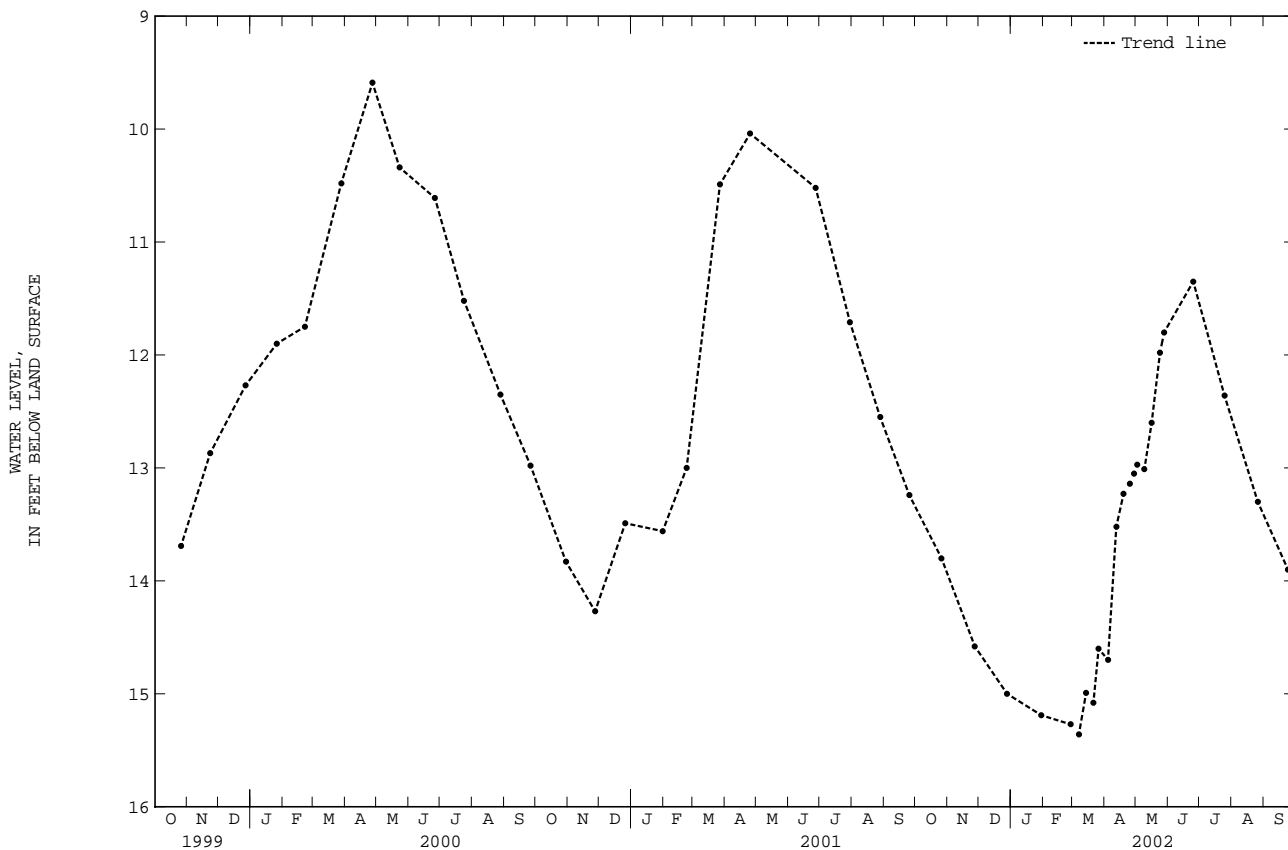
**PERIOD OF RECORD.**--May 1958 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 7.85 ft below land-surface datum, Apr. 26, 1983; lowest water level measured, 15.72 ft below land-surface datum, Jan. 26, 1966.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	13.80	FEB 27	15.27	MAR 26	14.60	APR 25	13.14	MAY 16	12.60	JUL 25	12.36
NOV 27	14.58	MAR 07	15.36	APR 04	14.70	29	13.05	24	11.98	AUG 26	13.30
DEC 28	15.00	14	14.99	12	13.52	MAY 02	12.97	28	11.80	SEP 24	13.90
JAN 30	15.19	21	15.08	19	13.23	09	13.01	JUN 25	11.35		
WATER YEAR 2002		HIGHEST	11.35	JUN 25, 2002	LOWEST	15.36	MAR 07, 2002				

## MS 19



## TOLLAND COUNTY--Continued

414741072134501. Local Number, MS 44.

**LOCATION.**--Lat 41°47'41", long 72°13'45", Hydrologic Unit 01100002, at School of Agronomy, University of Connecticut, Rt. 195 Mansfield, down access road to farm house, 150 ft from end of road, 40 ft south side of road, Mansfield; Coventry quadrangle. Owner: University of Connecticut.

**AQUIFER.**--Glacial till of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water-table, diameter 2 in, depth 22 ft, PVC casing, slotted 20 to 22 ft.

**INSTRUMENTATION.**--Prior to May 1984 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Submersible pressure transducer/data logger installed Mar. 14, 2002, collects 1-hour water-level data. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 654 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 1.20 ft above land-surface datum. Measuring point (as of Feb. 2002): Top of threaded coupling inside gage box, 4.28 ft above land-surface datum.

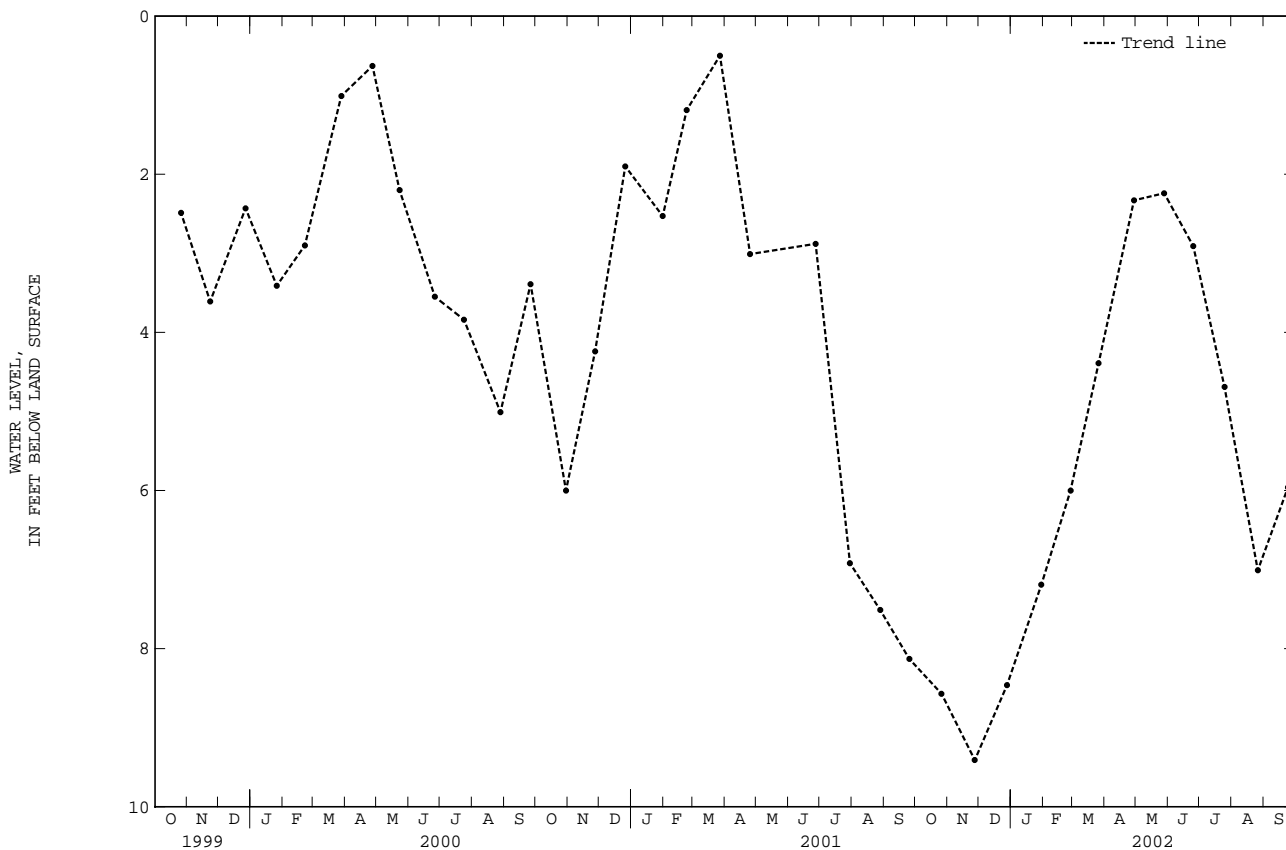
**PERIOD OF RECORD.**--June 1982 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.08 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 10.58 ft below land-surface datum, Sept. 28, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	8.57	DEC 28	8.46	FEB 27	6.00	APR 29	2.33	JUN 25	2.91	AUG 26	7.01
NOV 27	9.41	JAN 30	7.19	MAR 26	4.39	MAY 28	2.24	JUL 25	4.69	SEP 24	5.96
WATER YEAR 2002		HIGHEST	2.24	MAY 28, 2002		LOWEST	9.41	NOV 27, 2001			

## MS 44



## GROUND-WATER LEVELS

## TOLLAND COUNTY--Continued

414741072134501. Local Number, MS 44.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	4.11	4.07
16	---	---	---	---	---	---	---	---	---	---	4.22	4.07
17	---	---	---	---	---	---	---	---	---	---	4.23	4.19
18	---	---	---	---	---	---	---	---	---	---	4.19	4.11
19	---	---	---	---	---	---	---	---	---	---	4.17	4.11
20	---	---	---	---	---	---	---	---	---	---	4.15	3.89
21	---	---	---	---	---	---	---	---	---	---	3.89	3.49
22	---	---	---	---	---	---	---	---	---	---	3.49	3.16
23	---	---	---	---	---	---	---	---	---	---	3.17	3.13
24	---	---	---	---	---	---	---	---	---	---	3.26	3.17
25	---	---	---	---	---	---	---	---	---	---	3.38	3.26
26	---	---	---	---	---	---	---	---	---	---	3.40	3.21
27	---	---	---	---	---	---	---	---	---	---	3.21	1.98
28	---	---	---	---	---	---	---	---	---	---	2.08	1.97
29	---	---	---	---	---	---	---	---	---	---	2.21	2.08
30	---	---	---	---	---	---	---	---	---	---	2.22	2.04
31	---	---	---	---	---	---	---	---	---	---	2.11	2.04
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

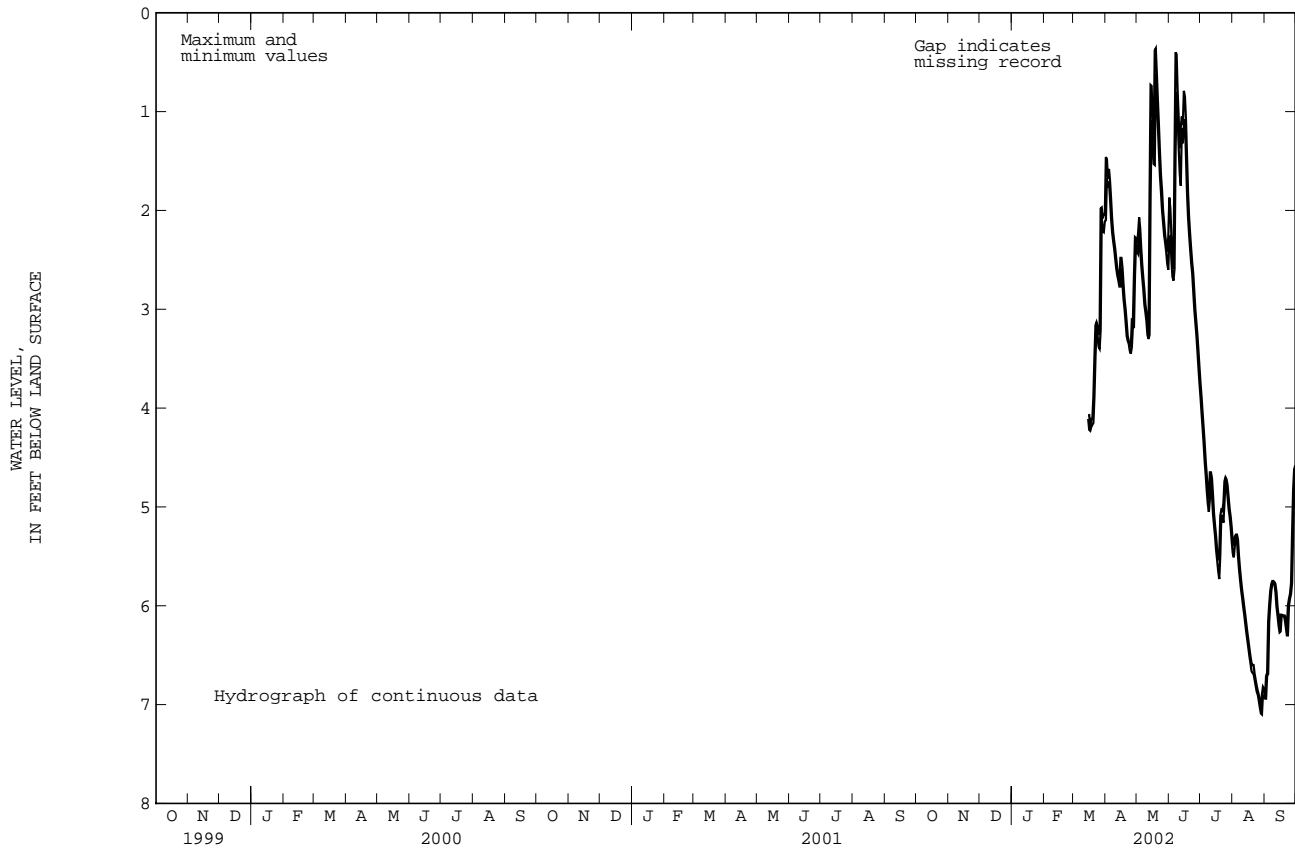
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.10	1.46	2.42	2.33	2.27	1.87	3.89	3.75	5.47	5.35	6.94	6.93
2	1.68	1.48	2.44	2.23	2.26	1.98	4.05	3.89	5.51	5.39	6.94	6.71
3	1.77	1.68	2.23	2.07	2.50	2.26	4.20	4.05	5.39	5.30	6.71	6.68
4	1.71	1.58	2.38	2.18	2.67	2.50	4.36	4.20	5.30	5.28	6.69	6.16
5	1.88	1.70	2.55	2.38	2.71	2.59	4.54	4.36	5.33	5.28	6.16	5.99
6	2.08	1.88	2.68	2.55	2.59	1.41	4.68	4.54	5.50	5.33	5.99	5.85
7	2.22	2.08	2.80	2.68	1.41	0.40	4.84	4.68	5.63	5.50	5.85	5.78
8	2.31	2.22	2.95	2.80	0.80	0.42	4.97	4.84	5.74	5.63	5.78	5.75
9	2.39	2.31	3.03	2.95	1.06	0.80	5.05	4.92	5.84	5.74	5.76	5.75
10	2.49	2.39	3.12	3.03	1.37	1.06	4.92	4.65	5.92	5.84	5.78	5.76
11	2.59	2.49	3.26	3.12	1.63	1.37	4.71	4.65	6.01	5.92	5.86	5.78
12	2.66	2.59	3.30	3.26	1.75	1.16	4.88	4.71	6.09	6.01	6.01	5.86
13	2.71	2.66	3.26	1.86	1.17	1.05	5.07	4.88	6.18	6.09	6.10	6.01
14	2.77	2.71	1.86	0.73	1.32	1.13	5.19	5.07	6.27	6.18	6.20	6.10
15	2.77	2.48	1.09	0.74	1.13	0.79	5.30	5.19	6.35	6.27	6.27	6.20
16	2.58	2.48	1.31	1.09	1.08	0.85	5.44	5.30	6.43	6.35	6.26	6.09
17	2.75	2.58	1.53	1.31	1.45	1.08	5.54	5.44	6.51	6.43	6.10	6.09
18	2.90	2.75	1.54	0.38	1.82	1.45	5.65	5.54	6.58	6.51	6.10	6.10
19	3.00	2.90	0.62	0.36	2.07	1.82	5.73	5.49	6.66	6.58	6.10	6.10
20	3.13	3.00	0.88	0.62	2.24	2.07	5.49	5.09	6.68	6.60	6.14	6.10
21	3.27	3.13	1.14	0.88	2.39	2.24	5.09	5.03	6.69	6.60	6.22	6.14
22	3.32	3.27	1.41	1.14	2.53	2.39	5.09	5.04	6.75	6.69	6.30	6.22
23	3.35	3.32	1.65	1.41	2.64	2.53	5.16	4.96	6.81	6.75	6.30	6.00
24	3.42	3.35	1.82	1.65	2.82	2.64	4.96	4.74	6.87	6.81	6.00	5.93
25	3.45	3.38	2.00	1.80	3.00	2.82	4.74	4.70	6.90	6.86	5.93	5.88
26	3.38	3.11	2.12	2.00	3.13	3.00	4.78	4.72	6.96	6.90	5.88	5.77
27	3.17	3.12	2.25	2.12	3.26	3.13	4.90	4.78	7.03	6.96	5.77	5.27
28	3.19	2.66	2.33	2.25	3.42	3.26	5.02	4.90	7.09	7.03	5.27	4.83
29	2.66	2.27	2.42	2.33	3.59	3.42	5.10	5.02	7.10	6.90	4.83	4.62
30	2.33	2.28	2.54	2.42	3.75	3.59	5.21	5.10	6.90	6.82	4.62	4.58
31	---	---	2.60	2.27	---	---	5.35	5.21	6.93	6.84	---	---
MONTH	3.45	1.46	3.30	0.36	3.75	0.40	5.73	3.75	7.10	5.28	6.94	4.58

## TOLLAND COUNTY--Continued

414741072134501. Local Number, MS 44.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

MS 44



## GROUND-WATER LEVELS

## TOLLAND COUNTY--Continued

414825072185601. Local Number, MS 45.

**LOCATION.**--Lat 41°48'25", long 72°18'56", Hydrologic Unit 01100002, west side of corn field, 3,000 ft west of Rt. 32, 2,500 ft north of Rt. 44, 100 ft east of Willimantic River, Mansfield; Coventry quadrangle. Owner: University of Connecticut.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water-table, diameter 2 in, depth 18.4 ft, PVC casing, slotted 16.9 to 18.4 ft.

**INSTRUMENTATION.**--From July 1987 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 295 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 0.76 ft above land-surface datum.

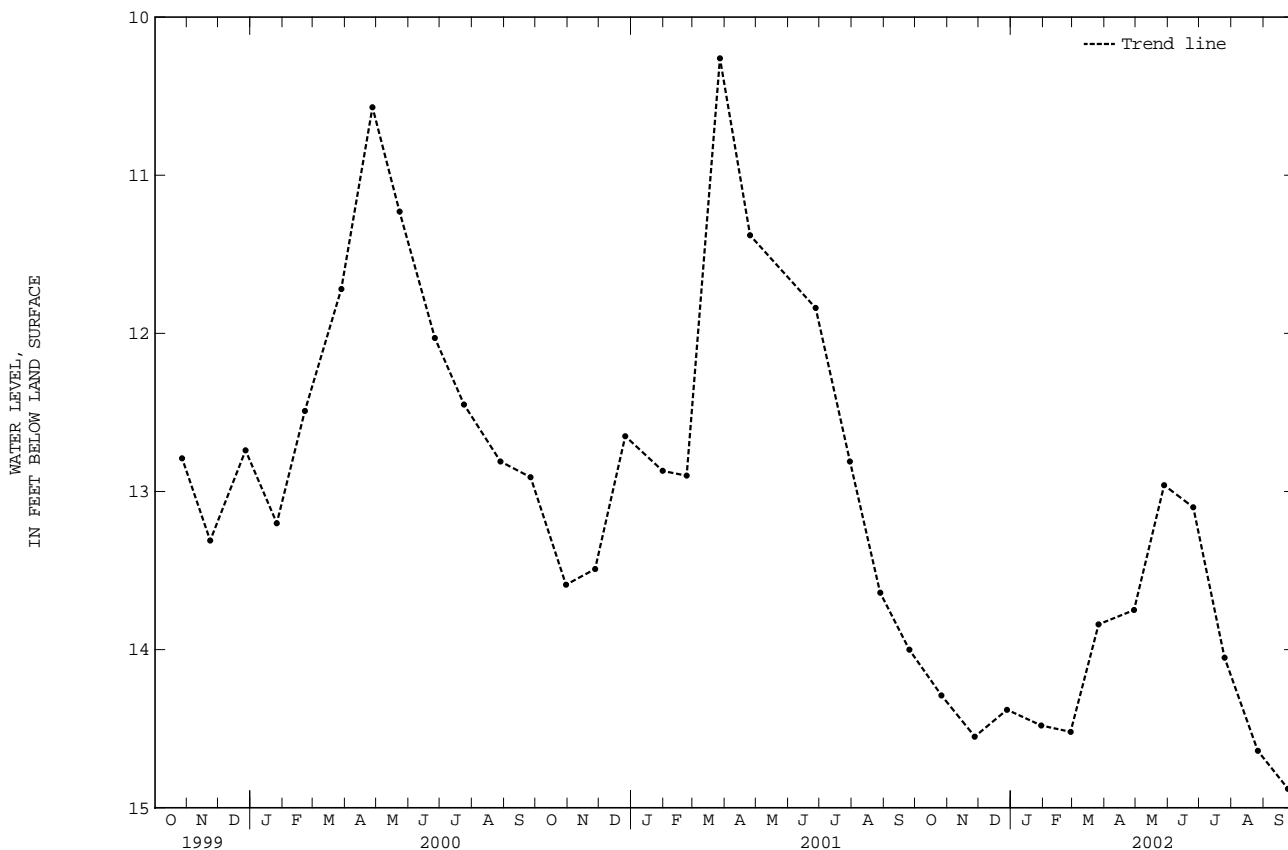
**PERIOD OF RECORD.**--July 1987 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 9.00 ft below land-surface datum, Mar. 31, 1993; lowest water level measured, 14.88 ft below land-surface datum, Sept. 24, 2002.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	14.29	DEC 28	14.38	FEB 27	14.52	APR 29	13.75	JUN 25	13.10	AUG 26	14.64
NOV 27	14.55	JAN 30	14.48	MAR 26	13.84	MAY 28	12.96	JUL 25	14.05	SEP 24	14.88
WATER YEAR 2002		HIGHEST	12.96	MAY 28, 2002	LOWEST	14.88	SEP 24, 2002				

## MS 45





## TOLLAND COUNTY--Continued

414825072185602. Local Number, MS 46.

**LOCATION.**--Lat 41°48'25", long 72°18'56", Hydrologic Unit 01100002, west side of corn field, 3,000 ft west of Rt. 32, 2,500 ft north of Rt. 44, 100 ft east of Willimantic River, Mansfield; Coventry quadrangle. Owner: University of Connecticut.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water-table, diameter 2 in, depth 41.25 ft, PVC casing, slotted 36.25 to 41.25 ft.

**INSTRUMENTATION.**--From July 1987 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 295 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 2.10 ft above land-surface datum.

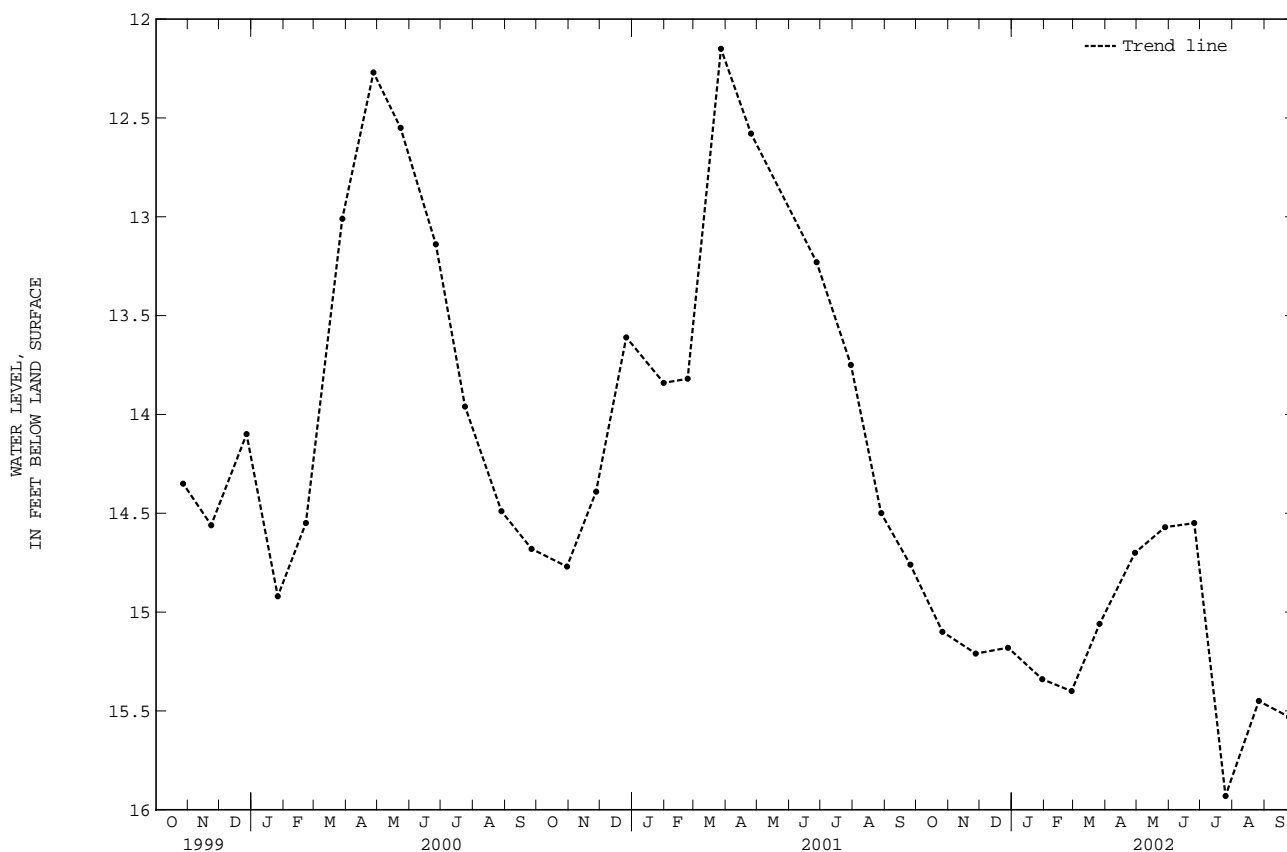
**PERIOD OF RECORD.**--July 1987 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 10.72 ft below land-surface datum, Mar. 31, 1993; lowest water level measured, 16.91 ft below land-surface datum, Sept. 29, 1995.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	15.10	DEC 28	15.18	FEB 27	15.40	APR 29	14.70	JUN 25	14.55	AUG 26	15.45
NOV 27	15.21	JAN 30	15.34	MAR 26	15.06	MAY 28	14.57	JUL 25	15.93	SEP 24	15.53
WATER YEAR 2002		HIGHEST	14.55	JUN 25, 2002	LOWEST	15.93	JUL 25, 2002				

## MS 46



## GROUND-WATER LEVELS

## TOLLAND COUNTY--Continued

414843072182601. Local Number, MS 74.

**LOCATION.**--Lat 41°48'43", long 72°18'26", Hydrologic Unit 01100002, east side of corn field, 30 ft south of MS 77 and 3,200 ft north of intersection of Rts. 32 and 44, Mansfield; Coventry quadrangle. Owner: University of Connecticut.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water-table, diameter 2 in, depth 19.5 ft, PVC casing, slotted 14.5 to 19.5 ft.

**INSTRUMENTATION.**--From December 1992 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 490 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 2.00 ft above land-surface datum.

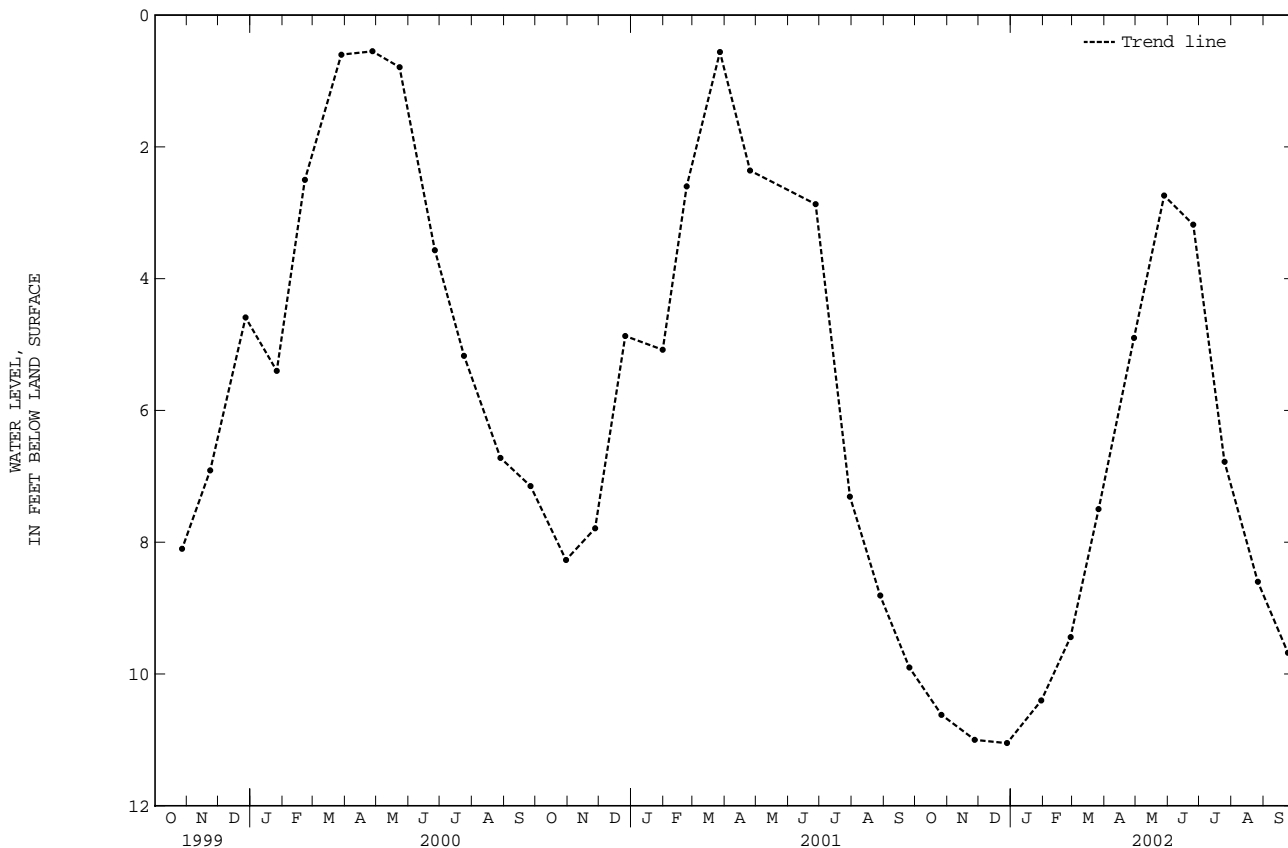
**PERIOD OF RECORD.**--December 1992 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.14 ft above land-surface datum, Mar. 31, 1993; lowest water level measured, 11.05 ft below land-surface datum, Dec. 28, 2001.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	10.62	DEC 28	11.05	FEB 27	9.44	APR 29	4.90	JUN 25	3.18	AUG 26	8.60
NOV 27	11.00	JAN 30	10.40	MAR 26	7.50	MAY 28	2.74	JUL 25	6.78	SEP 24	9.68
WATER YEAR 2002		HIGHEST	2.74	MAY 28, 2002		LOWEST	11.05	DEC 28, 2001			

## MS 74



## TOLLAND COUNTY--Continued

414815072183401. Local Number, MS 75.

**LOCATION.**--Lat 41°48'15", long 72°18'34", Hydrologic Unit 01100002, East side of corn field, 400 ft east of railroad tracks, 1,200 ft north of Rt. 44, Mansfield; Coventry quadrangle. Owner: University of Connecticut.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table, diameter 2 in, depth 31 ft, PVC casing, slotted 26 to 31 ft.

**INSTRUMENTATION.**--From December 1992 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 345 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 2.18 ft above land-surface datum.

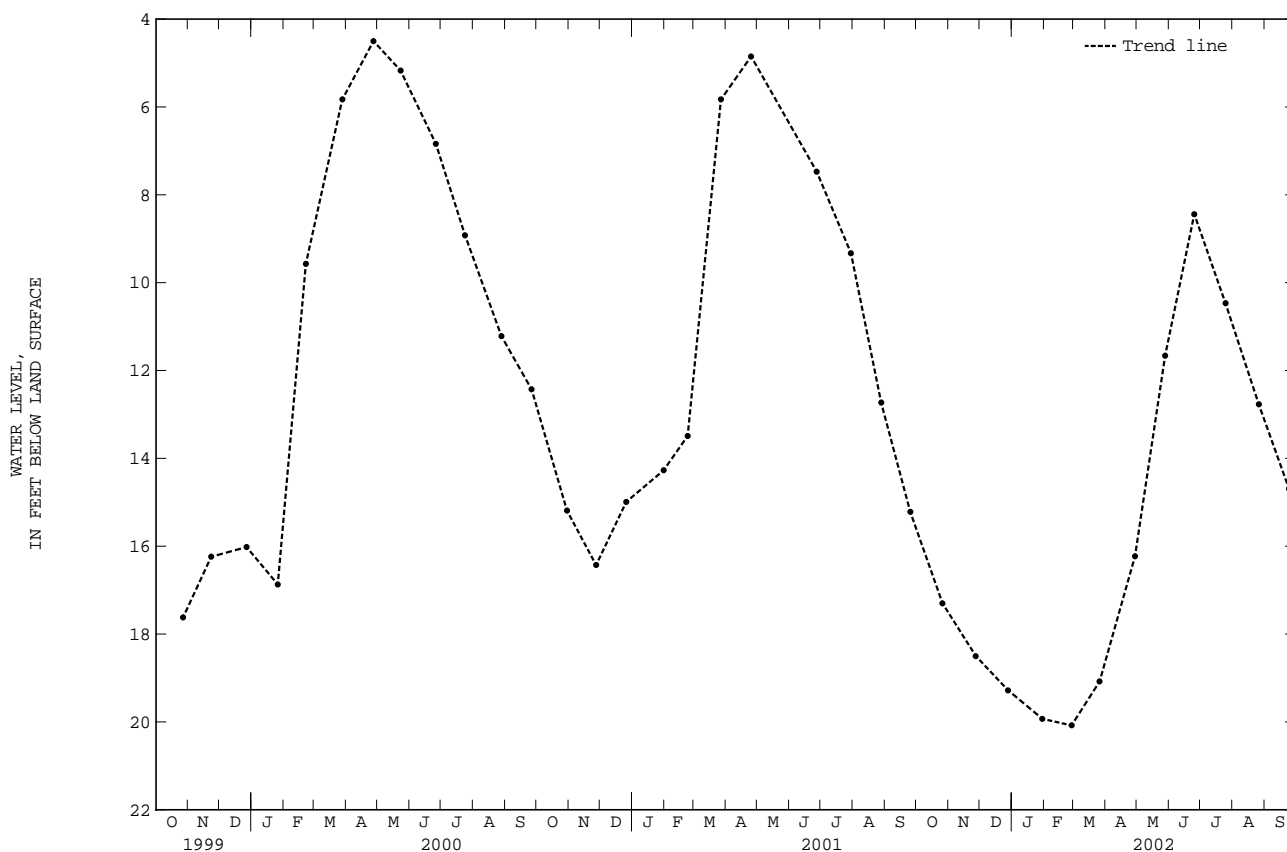
**PERIOD OF RECORD.**--December 1992 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 3.80 ft below land-surface datum, Dec. 27, 1996; lowest water level measured, 20.90 ft below land-surface datum, Nov. 24, 1997.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	17.30	DEC 28	19.28	FEB 27	20.08	APR 29	16.23	JUN 25	8.44	AUG 26	12.77
NOV 27	18.50	JAN 30	19.93	MAR 26	19.08	MAY 28	11.66	JUL 25	10.47	SEP 24	14.69
WATER YEAR 2002		HIGHEST	8.44	JUN 25, 2002	LOWEST	20.08	FEB 27, 2002				

## MS 75



## GROUND-WATER LEVELS

## TOLLAND COUNTY--Continued

414814072183101. Local Number, MS 76.

**LOCATION.**--Lat 41°48'14", long 72°18'31", Hydrologic Unit 01100002, South edge of corn field, 3,000 ft north of Rt. 44, 35 ft west of farm road, Mansfield; Coventry quadrangle. Owner: University of Connecticut.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table, diameter 2 in, depth 68.5 ft, PVC casing, slotted 63.5 to 68.5 ft.

**INSTRUMENTATION.**--From December 1992 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 330 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 2.20 ft above land-surface datum.

**REMARKS.**--Missing data due to well obstruction.

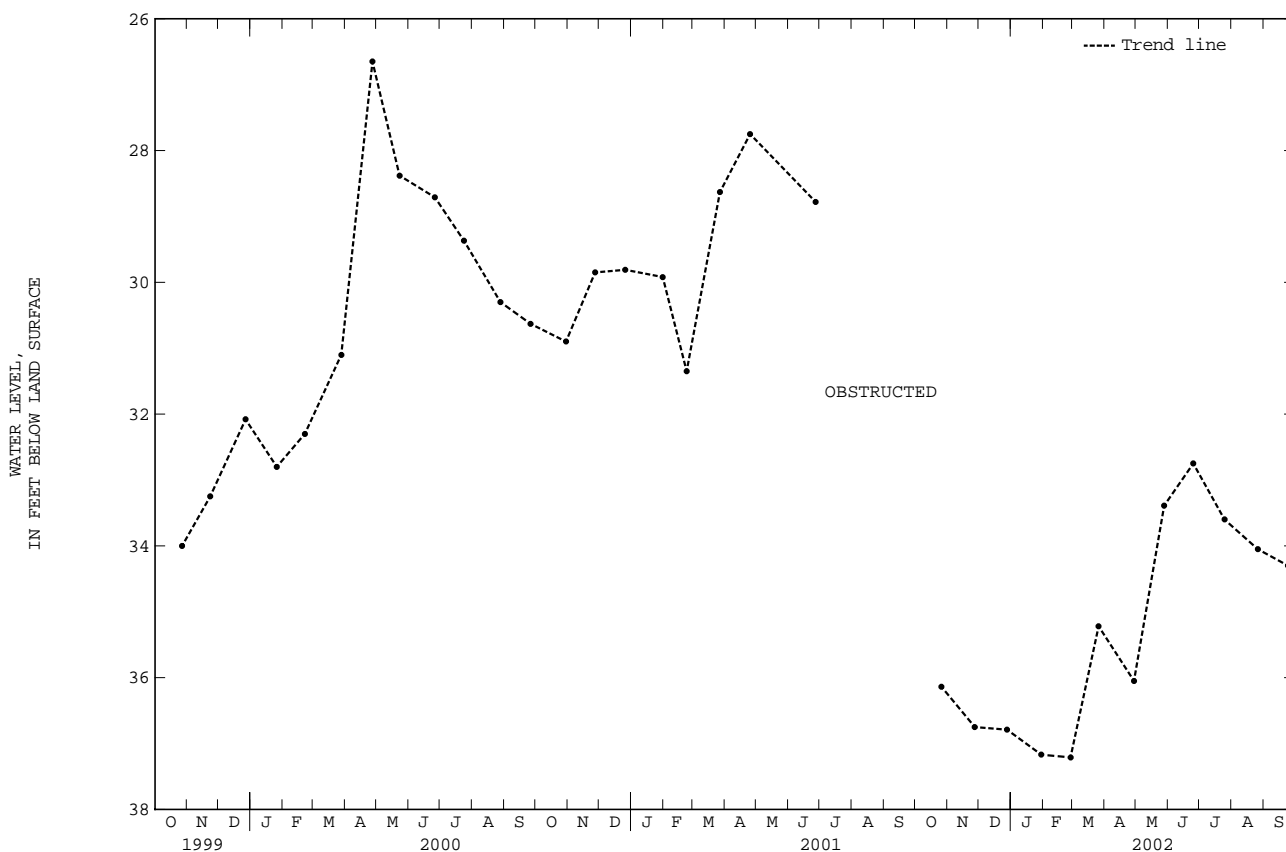
**PERIOD OF RECORD.**--December 1992 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 26.65 ft below land surface, Apr. 27, 2000; lowest water level measured, 37.21 ft below land-surface datum, Feb. 27, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	36.14	DEC 28	36.79	FEB 27	37.21	APR 29	36.05	JUN 25	32.75	AUG 26	34.05
NOV 27	36.75	JAN 30	37.17	MAR 26	35.22	MAY 28	33.39	JUL 25	33.60	SEP 24	34.30
WATER YEAR 2002		HIGHEST	32.75	JUN 25, 2002	LOWEST	37.21	FEB 27, 2002				

## MS 76



## TOLLAND COUNTY--Continued

414844072182701. Local Number, MS 77.

**LOCATION.**--Lat 41°48'44", long 72°18'27", Hydrologic Unit 01100002, East side of corn field, 185 ft east of Rt. 44, 30 ft north of MS 74, 3,200 ft north of intersection of Rts. 32 and 44, Mansfield; Coventry quadrangle. Owner: University of Connecticut.

**AQUIFER.**--Stratified drift of Pleistocene age.

**WELL CHARACTERISTICS.**--Augered, unused, water-table, diameter 2 in, depth 50 ft, PVC casing, slotted 45 to 50 ft.

**INSTRUMENTATION.**--From July 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 490 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 3.00 ft above land-surface datum.

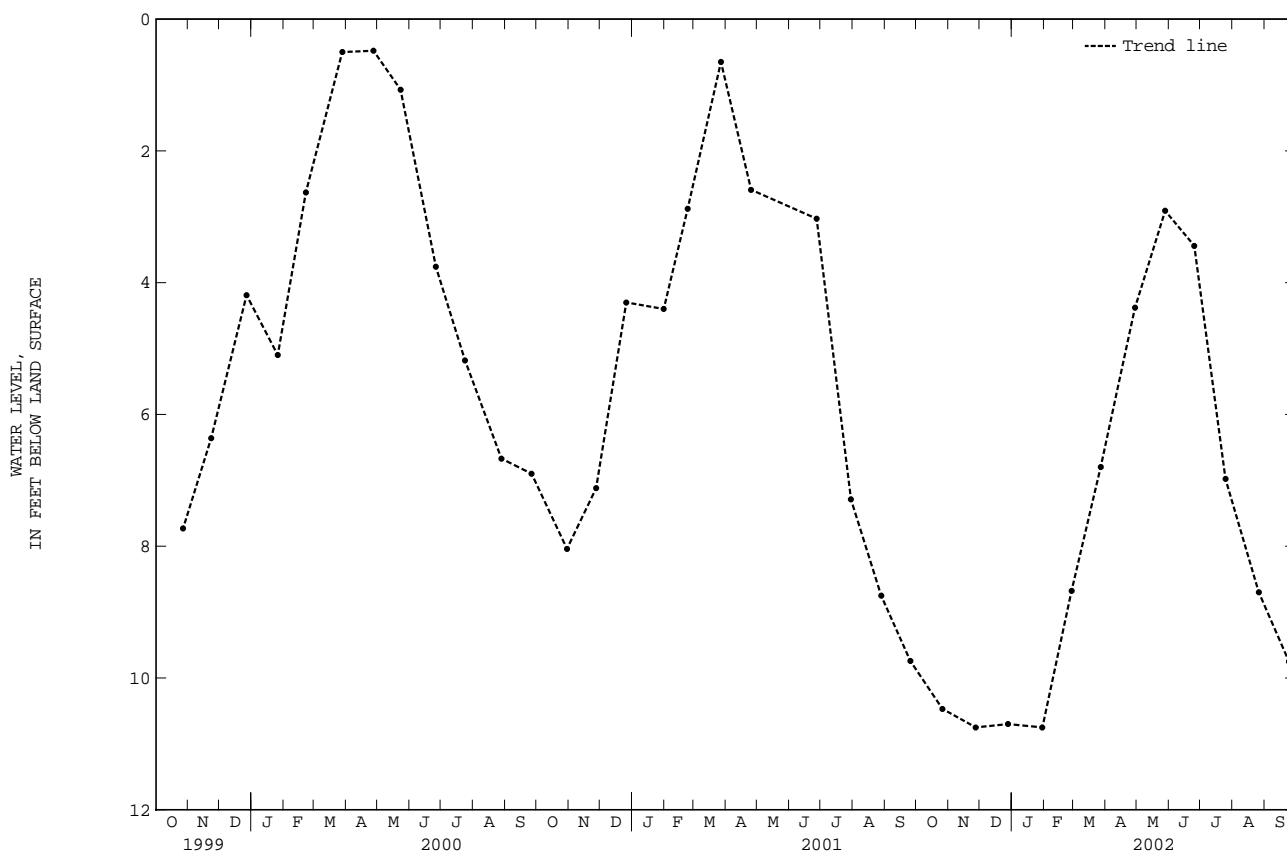
**PERIOD OF RECORD.**--July 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.31 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 10.75 ft below land-surface datum, Nov. 21, 2001; Jan. 30, 2002.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	10.47	DEC 28	10.70	FEB 27	8.68	APR 29	4.38	JUN 25	3.44	AUG 26	8.70
NOV 27	10.75	JAN 30	10.75	MAR 27	6.80	MAY 28	2.91	JUL 25	6.98	SEP 24	9.75
WATER YEAR 2002		HIGHEST	2.91	MAY 28, 2002		LOWEST	10.75	NOV 27, 2001		JAN 30, 2002	

## MS 77



414831072173002. Local Number. MS 80.

**AQUIFER.**--Crystalline bedrock.

**WELL CHARACTERISTICS.**--Bored, unused, water-table, diameter 6 in, depth 444 ft, PVC casing 30.8 ft to bedrock, open hole.

**INSTRUMENTATION.**--Submersible pressure transducer/data logger installed Feb. 22, 2002, collects 1-hour water-level data. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 500 ft above sea level, from topographic map. Measuring point: Top of PVC casing, 1.0 ft above land-surface datum.

REMARKS.--Missing data due to well obstruction.

PERIOD OF RECORD.--February 22, 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.40 ft below land surface, May 20, 2002; lowest water level measured, 20.29 ft below land-surface datum, Sept. 26, 2002.

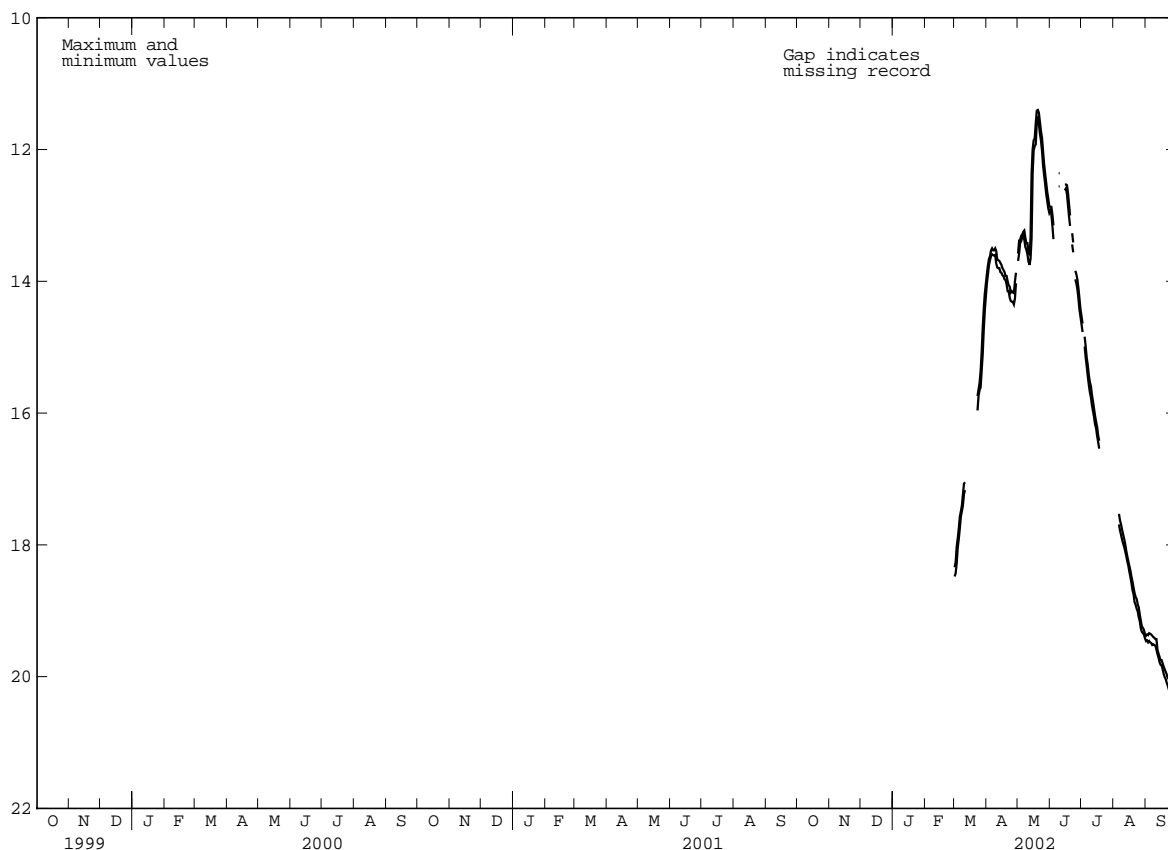
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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## 414831072173002. Local Number, MS 80.--Continued

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.04	13.89	13.69	13.58	12.92	12.87	14.65	14.53	---	---	19.46	19.38
2	13.90	13.76	13.58	13.38	12.99	12.87	14.77	14.64	---	---	19.45	19.36
3	13.76	13.66	13.42	13.37	13.16	12.99	---	---	---	---	19.48	19.37
4	13.68	13.62	13.39	13.31	13.36	13.15	14.99	14.84	---	---	19.46	19.34
5	13.62	13.53	13.33	13.29	---	---	15.16	14.99	---	---	19.48	19.35
6	13.59	13.50	13.31	13.25	---	---	15.29	15.16	17.69	17.53	19.49	19.36
7	13.60	13.53	13.37	13.23	---	---	15.44	15.27	17.78	17.63	19.52	19.38
8	13.61	13.53	13.48	13.34	---	---	15.57	15.42	17.85	17.69	19.51	19.40
9	13.60	13.50	13.52	13.42	12.56	12.36	15.68	15.53	17.92	17.77	19.52	19.41
10	13.73	13.54	13.59	13.42	---	---	15.76	15.59	17.98	17.84	19.53	19.43
11	13.79	13.67	13.70	13.57	---	---	15.88	15.72	18.03	17.91	19.59	19.43
12	13.80	13.68	13.75	13.59	---	---	15.97	15.82	18.10	17.99	19.66	19.59
13	13.80	13.69	13.66	13.34	---	---	16.06	15.93	18.17	18.09	19.71	19.65
14	13.86	13.72	13.34	12.37	---	---	16.17	16.04	18.25	18.17	19.78	19.70
15	13.87	13.75	12.37	12.00	12.62	12.53	16.23	16.13	18.32	18.25	19.82	19.75
16	13.91	13.80	12.01	11.86	12.59	12.53	16.35	16.21	18.41	18.32	19.83	19.75
17	13.92	13.83	11.95	11.83	12.68	12.54	16.44	16.34	18.49	18.39	19.89	19.80
18	13.97	13.86	11.92	11.60	12.85	12.66	16.54	16.42	18.58	18.48	19.96	19.85
19	13.98	13.92	11.60	11.41	13.02	12.83	---	---	18.69	18.56	20.01	19.89
20	14.05	13.92	11.49	11.40	13.16	13.00	---	---	18.75	18.65	20.04	19.93
21	14.15	14.00	11.61	11.44	---	---	---	---	18.87	18.73	20.10	19.97
22	14.15	14.06	11.76	11.58	13.44	13.27	---	---	18.91	18.79	20.14	20.02
23	14.25	14.08	11.86	11.72	13.56	13.41	---	---	18.97	18.82	20.20	20.04
24	14.30	14.17	12.02	11.82	---	---	---	---	19.01	18.90	20.25	20.12
25	14.31	14.15	12.24	12.02	13.97	13.84	---	---	19.10	18.95	20.28	20.19
26	14.31	14.17	12.38	12.21	14.03	13.89	---	---	19.16	19.06	20.29	20.19
27	14.35	14.18	12.52	12.36	14.12	13.97	---	---	19.27	19.15	20.25	20.13
28	14.26	14.00	12.67	12.50	14.26	14.10	---	---	19.32	19.24	20.20	20.16
29	14.03	13.87	12.78	12.64	14.43	14.26	---	---	19.34	19.26	20.23	20.15
30	---	---	12.89	12.74	14.54	14.42	---	---	19.36	19.29	20.20	20.10
31	---	---	12.96	12.86	---	---	---	---	19.42	19.36	---	---
MONTH	---	---	13.75	11.40	---	---	---	---	---	---	20.29	19.34

WATER LEVEL,  
IN FEET BELOW LAND SURFACE

## GROUND-WATER LEVELS

## WINDHAM COUNTY

414054071552001. Local Number, PL 1.

**LOCATION.**--Lat 41°40'54", long 71°55'20", Hydrologic Unit 01100001, 195 ft south of Pleasant St., 1,300 ft east of junction with State Rt. 14, in left corner of back yard, Plainfield; Plainfield quadrangle. Owner: Clifford Starkweather.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Dug, unused, water-table well, diameter 36 in, depth 34 ft, brick-lined.

**INSTRUMENTATION.**--Analog recorder installed April 12, 1985 and removed September 2, 1985. Prior to November 1990 measurements made monthly; from November 1990 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. Additional measurements made March to May 2002 due to drought conditions. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 180 ft above sea level, from topographic map. Measuring point: Top of stone curb at land-surface datum.

**REMARKS.**--Water levels affected by use of well for irrigation during July and August, 1997.

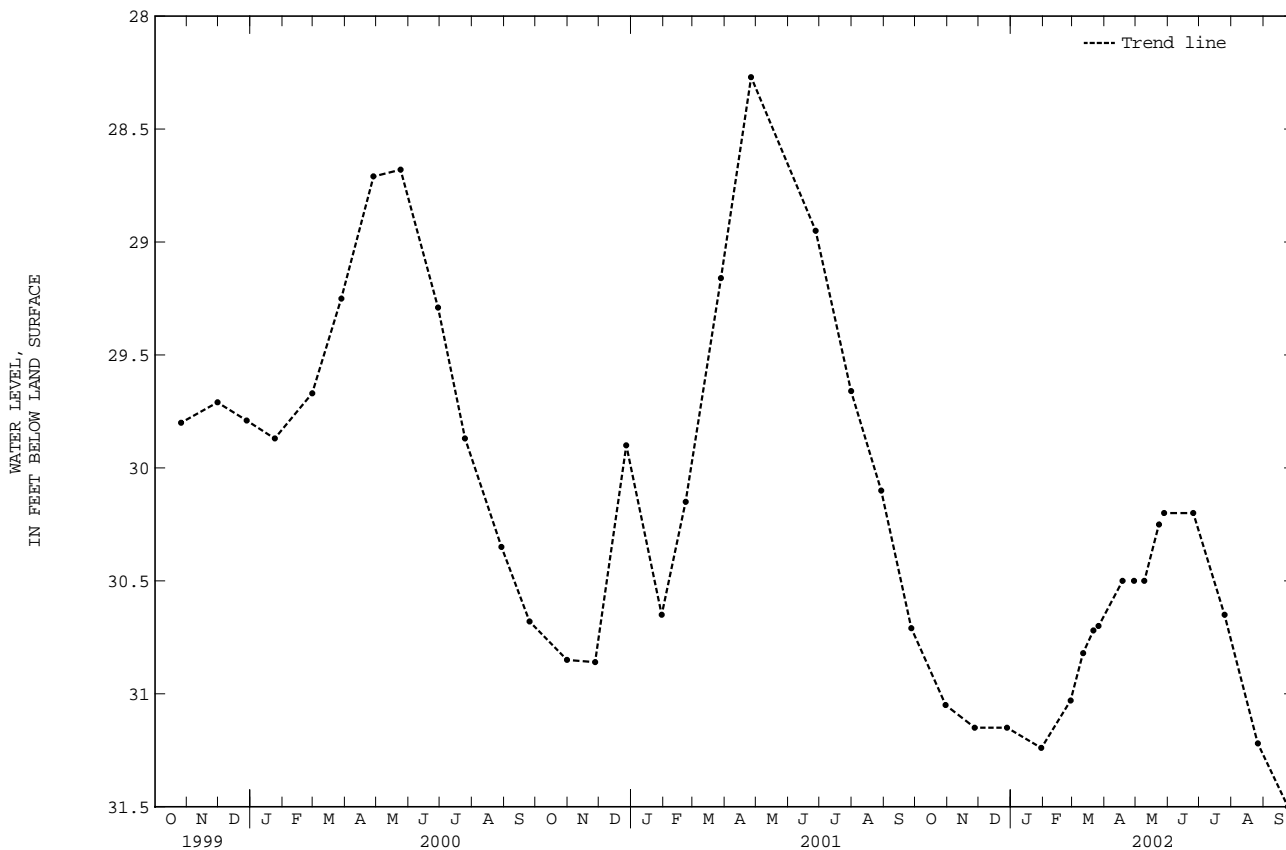
**PERIOD OF RECORD.**--October 1942 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 26.19 ft below land-surface datum, Apr. 26, 1983; lowest water level measured, 33.21 ft below land-surface datum, Feb. 10, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	31.05	JAN 30	31.24	MAR 21	30.72	APR 29	30.50	MAY 28	30.20	AUG 26	31.22
NOV 27	31.15	FEB 27	31.03	26	30.70	MAY 09	30.50	JUN 25	30.20	SEP 24	31.50
DEC 28	31.15	MAR 11	30.82	APR 18	30.50	23	30.25	JUL 25	30.65		
WATER YEAR 2002		HIGHEST	30.20	MAY 28, 2002	JUN 25, 2002	LOWEST	31.50	SEP 24, 2002			

## PL 1





## WINDHAM COUNTY--Continued

414243072040501. Local Number, SC 19.

**LOCATION.**--Lat 41°42'43", long 72°04'05", Hydrologic unit 01100002, hilltop site at Pudding Hill Wildlife Management Area. As of March 29, 1999 name changed to James V. Spignesi, Jr. Wildlife Area. Off State Rt. 97 along south side of field road about 100 ft east of Rt. 97, Scotland; Scotland quadrangle. Owner: State of Connecticut Department of Environmental Protection.

**AQUIFER.**--Till of Pleistocene age.

**WELL CHARACTERISTICS.**--Bored, unused, water table well, diameter 2 in, depth 21 ft, PVC casing, slotted 18 to 21 ft.

**INSTRUMENTATION.**--Prior to October 28, 1988 measurements made monthly with a chalked tape by State Natural Resources Center personnel. ADR water-level recorder with 60-minute punch installed October 28, 1988, removed 1992. From October 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements since October 1993 made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 498 ft above sea level, from topographic map. Measuring point: Top of PVC coupling 1.28 ft above land-surface datum.

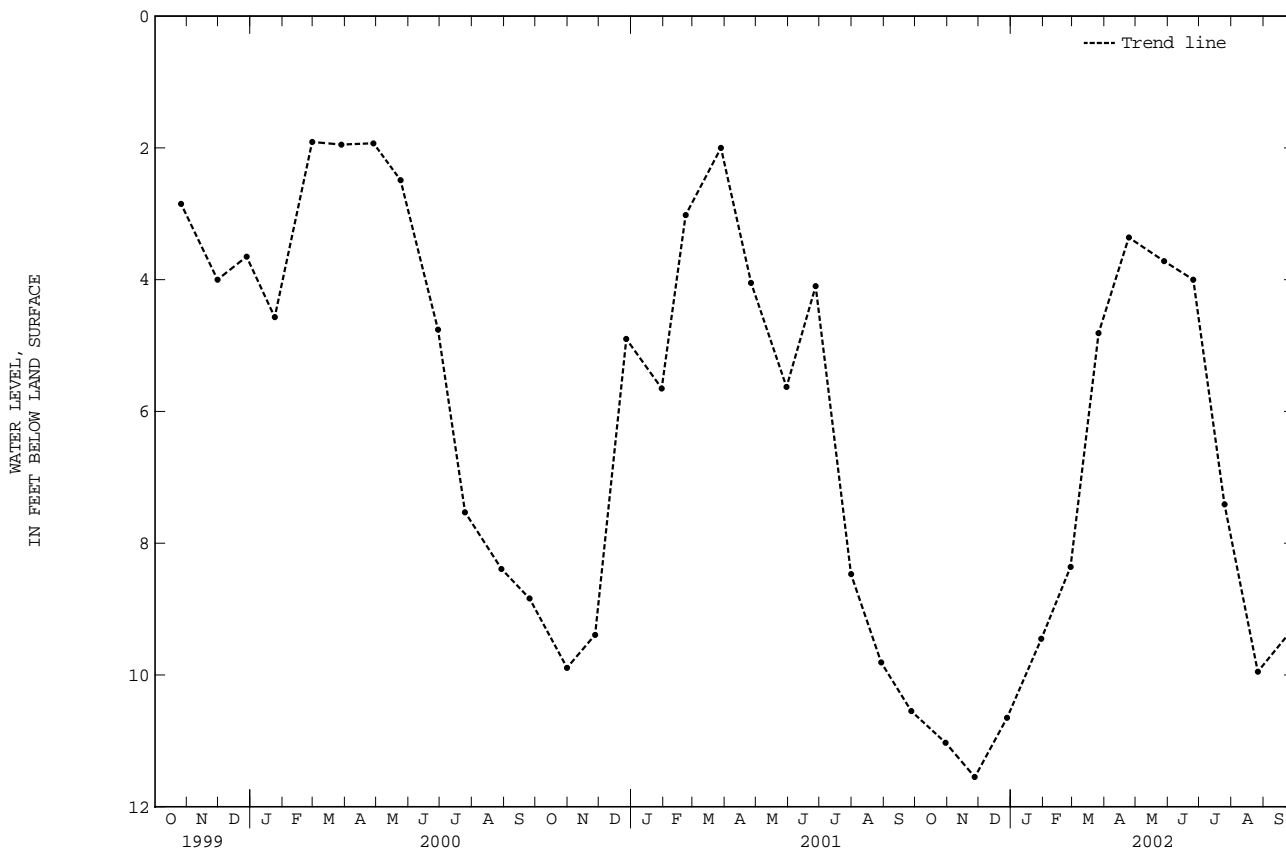
**PERIOD OF RECORD.**--December 1983 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.95 ft below land-surface datum, June 10, 1989; lowest water level measured, 11.60 ft below land-surface datum, Sept. 28, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	11.03	DEC 28	10.65	FEB 27	8.36	APR 24	3.36	JUN 25	4.00	AUG 26	9.95
NOV 27	11.55	JAN 30	9.45	MAR 26	4.81	MAY 28	3.72	JUL 25	7.41	SEP 25	9.37
WATER YEAR 2002		HIGHEST	3.36	APR 24, 2002	LOWEST	11.55	NOV 27, 2001				

## SC 19



## GROUND-WATER LEVELS

## WINDHAM COUNTY--Continued

414237072034401. Local Number, SC 20.

**LOCATION.**--Lat 41°42'37", long 72°03'44", Hydrologic unit 01100002, hillside site at Pudding Hill Wildlife Management area. As of March 29, 1999 name changed to James V. Spignesi, Jr. Wildfile Area. Off State Rt. 97 along field road on south side about 2,300 ft east of Rt. 97, Scotland; Scotland quadrangle. Owner: State of Connecticut Department of Environmental Protection.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water table well, diameter 2 in, depth 19 ft, PVC casing, slotted 16 to 19 ft.

**INSTRUMENTATION.**--Prior to November 8, 1988 measurements made monthly with a chalked tape by State Natural Resources Center personnel. ADR water-level recorder with 60-minute punch installed November 8, 1988, removed 1992. From October 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements since October 1993 made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 350 ft above sea level, from topographic map. Measuring point: Top of PVC coupling 2.27 ft above land-surface datum.

**REMARKS.**--Missing data due to well obstruction.

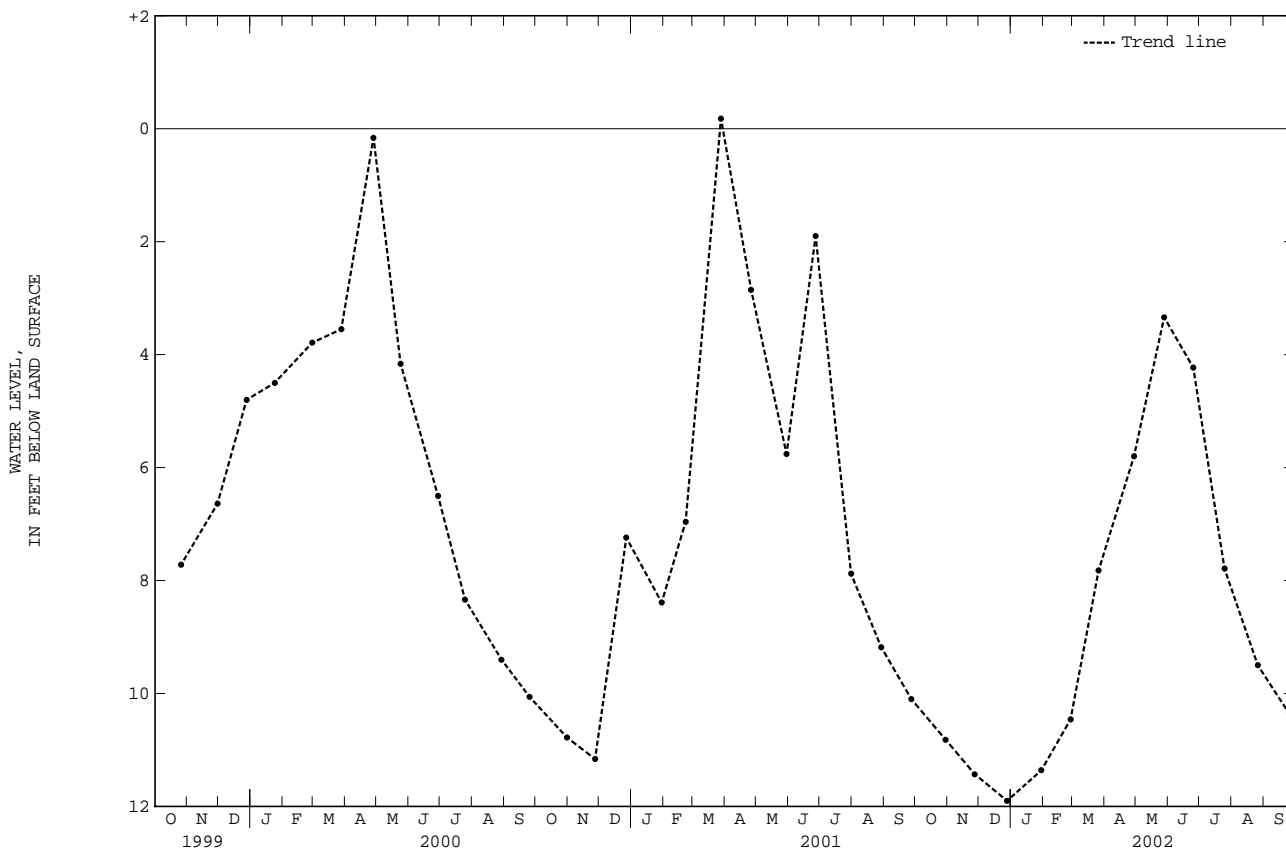
**PERIOD OF RECORD.**--December 1983 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 0.50 ft above land-surface datum, Apr. 9, 1987; lowest water level measured, 11.90 ft below land-surface datum, Dec. 28, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	10.82	DEC 28	11.90	FEB 27	10.46	APR 29	5.80	JUN 25	4.23	AUG 26	9.50
NOV 27	11.43	JAN 30	11.36	MAR 26	7.82	MAY 28	3.34	JUL 25	7.79	SEP 25	10.35
WATER YEAR 2002		HIGHEST	3.34	MAY 28, 2002	LOWEST	11.90	DEC 28, 2001				

## SC 20



## WINDHAM COUNTY--Continued

414240072032201. Local Number, SC 21.

**LOCATION.**--Lat 41°42'40", long 72°03'22", Hydrologic unit 01100002, at Pudding Hill Wildlife Management area. As of March 26, 1999 name changed to James V. Spignesi, Jr. Wildlife Area. Off State Rt. 97 at end of field road near stream about 4,000 ft east of Rt. 97, Scotland; Scotland quadrangle. Owner: State of Connecticut Department of Environmental Protection.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water table well, diameter 2 in, depth 31 ft, PVC casing, screened 28 to 31 ft.

**INSTRUMENTATION.**--Prior to November 8, 1988 measurements made monthly with a chalked tape by State Natural Resources Center personnel. ADR water-level recorder with 60-minute punch installed November 8, 1988 Removed October 14, 1990. From October 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements since October 1993 made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: Top of steel protective casing between hacksaw marks, 3.96 ft above land-surface datum.

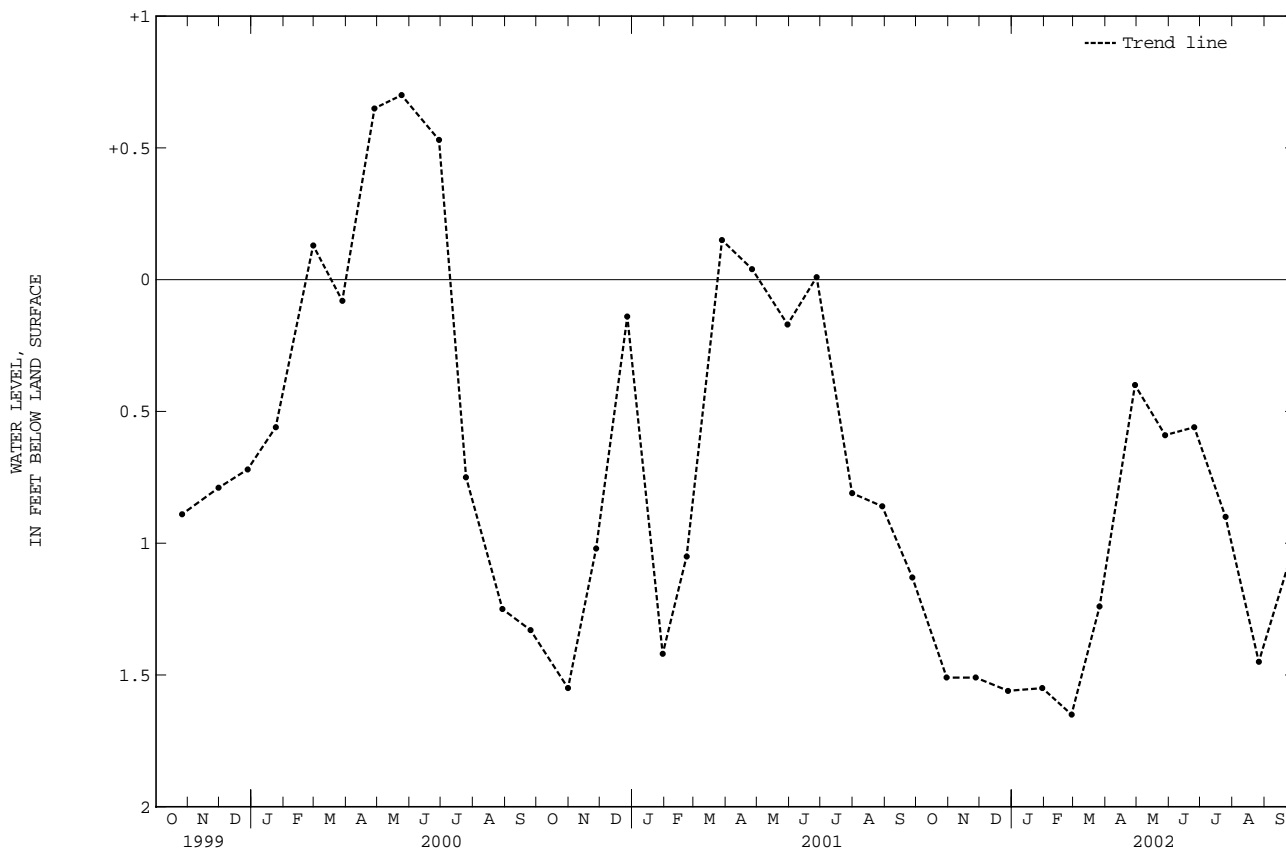
**PERIOD OF RECORD.**--December 1983 to October 1990 and August 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, flowing at 3.96 ft above land-surface datum, June 30, 1997; lowest water level measured, 2.11 ft below land-surface datum, Sept. 28, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	1.51	DEC 28	1.56	FEB 27	1.65	APR 29	.40	JUN 25	.56	AUG 26	1.45
NOV 27	1.51	JAN 30	1.55	MAR 26	1.24	MAY 28	.59	JUL 25	.90	SEP 25	1.06
WATER YEAR 2002		HIGHEST		.40	APR 29, 2002		LOWEST		1.65	FEB 27, 2002	

## SC 21



## GROUND-WATER LEVELS

## WINDHAM COUNTY--Continued

414240072033201. Local Number, SC 22.

**LOCATION.**--Lat 41°42'40", long 72°03'32", Hydrologic unit 01100002, hillside site at Pudding Hill Wildlife Management area. As of March 29, 1999 name changed to James V. Spignesi, Jr. Wildlife Area. Off State Rt. 97 along north side of field road about 3,300 ft east of Rt. 97, Scotland; Scotland quadrangle. Owner: State of Connecticut Department of Environmental Protection.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water-table well, diameter 2 in, depth 26 ft, PVC casing, slotted 24.5 to 26 ft.

**INSTRUMENTATION.**--Prior to November 8, 1988 measurements made monthly with a chalked tape by Natural Resources Center personnel. ADR water-level recorder with 60-minute punch installed November 8, 1988, removed 1992. From October 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements since October 1993 made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 315 ft above sea level, from topographic map. Measuring point: Top of steel protective casing, 2.11 ft above land-surface datum.

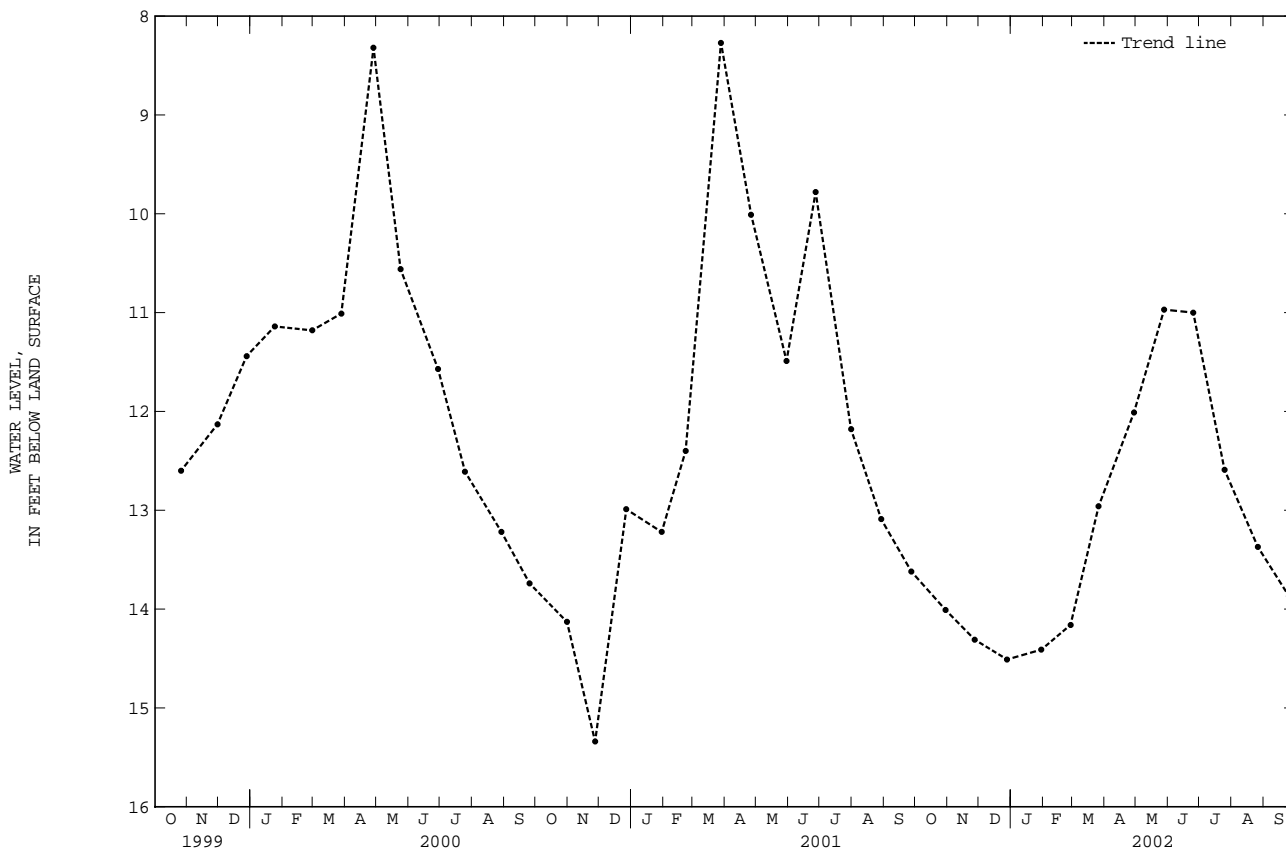
**PERIOD OF RECORD.**--October 1984 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, 6.62 ft below land-surface datum, Mar. 30, 1994; lowest water level measured, 16.00 ft below land-surface datum, Oct. 2, 1984.

## WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	14.01	DEC 28	14.51	FEB 27	14.16	APR 29	12.01	JUN 25	11.00	AUG 26	13.37
NOV 27	14.31	JAN 30	14.41	MAR 26	12.96	MAY 28	10.97	JUL 25	12.59	SEP 25	13.87
WATER YEAR 2002		HIGHEST	10.97	MAY 28, 2002		LOWEST	14.51	DEC 28, 2001			

## SC 22



## WINDHAM COUNTY--Continued

414240072032202. Local Number, SC 23.

**LOCATION.**--Lat 41°42'40", long 72°03'22", Hydrologic unit 01100002, at Pudding Hill Wildlife Management area. As of March 29, 1999 name changed to James V. Spignesi, Jr. Wildlife Area. Off State Rt. 97 at end of field road near stream about 4,000 ft east of Rt. 97, Scotland; Scotland quadrangle. Owner: State of Connecticut Department of Environmental Protection.

**AQUIFER.**--Stratified drift of Pleistocene age (sand and gravel).

**WELL CHARACTERISTICS.**--Bored, unused, water table well, diameter 2 in, depth 5.2 ft.

**INSTRUMENTATION.**--From December 1993 through September 1994 measurements made biweekly with a chalked tape; from October 1994 through September 1996 measurements made biweekly with an electric tape; since October 1996 measurements made monthly with an electric tape. All measurements made by USGS personnel.

**DATUM.**--Elevation of land-surface datum is 265 ft above sea level, from topographic map. Measuring point: top of protective steel casing, 0.91 ft above land-surface datum.

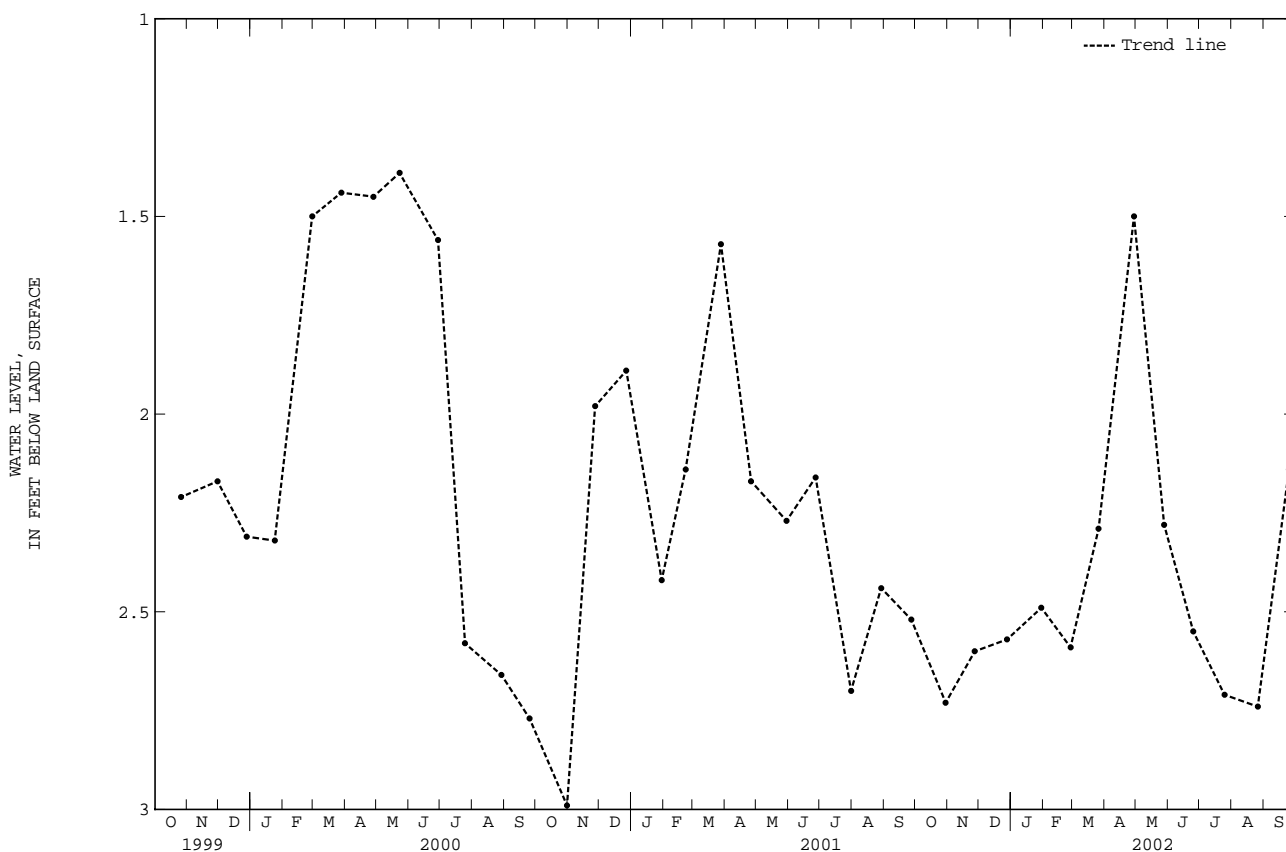
**PERIOD OF RECORD.**--December 1993 to current year.

**EXTREMES FOR PERIOD OF RECORD.**--Highest water level measured, flowing at 0.91 ft above land-surface datum, June 30, 1998; lowest water level measured, 3.28 ft below land-surface datum, Aug. 27, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	2.73	DEC 28	2.57	FEB 27	2.59	APR 29	1.50	JUN 25	2.55	AUG 26	2.74
NOV 27	2.60	JAN 30	2.49	MAR 26	2.29	MAY 28	2.28	JUL 25	2.71	SEP 25	2.14
WATER YEAR 2002		HIGHEST		1.50	APR 29, 2002		LOWEST		2.74	AUG 26, 2002	

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